SERVICE SERVICES

ANEW

METHOD

OF SOLVING

Adfected Quadratic, and Cubic Equations,

With their Application to

The Solution of Biquadratic Ones.

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The Solution of Biguidianic Ones.

TREATISE

CONTAINING AN

Entire NEW METHOD

OF SOLVING

Adfected Quadratic, and Cubic Equations,

With their Application to

The Solution of Biquadratic Ones;

In an easier, and more concise Way, than any yet publish'd; together with the Demonstrations of the Methods.

AND

A Set of New TABLES

FOR

Finding the ROOTS of CUBICS.

Invented by the late ingenious Mr. A. THACKEE, deceafed;

But calculated entirely, and in a great Measure exemplified, by W. B. R. O. W. N., Teacher of the Mathematicks, at the Free School, in Cleobury, Sproppire.

BIRMINGHAM:
Printed by Thomas Aris.
MDCC XLVI.

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With their Applications to

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Set of New TABLES

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PREFACE.

HE Business of resolving Adfected Quadratic, Gubic, and Biquadratic Equations, by the common Methods, is look'd upon to be very tedious, difficult, and troublesome; therefore an easier and shorter Way of unravelling fuch Sort of Equations, would undoubtedly claim the Regard of the Publick. This (I hope) is fufficiently performed in the following Treatife, which contains so general and explicit a Method, as to be applicable to whatever Cases might happen in each Kind; and yet it is so easy in Practice, that no Person (if but a little acquainted) with Logarithmetical Arithmetic) will ever be at a Loss to understand it: In thort, 'tis an entire new and concise Way,

Way of Solving Adjected Equations of the Second and Third Powers, by the Mediation of which, and the Method given in Dr. Saunderson's Algebra, Vol. II. p. 735. (of D is Cartes's Invention) the Fourth becomes foluble.

This new Method and Tables, was one of the Discoveries of my late ingenious Friend Mr. ANTHONY THACKER, Teacher of the Mathematics at Birmino liam Free School, a Person well known to the Mathematicians of this Nation for his great Genius, and many furprizing Performances, in this Kind of Literature; who engaging himfelf in the Publication of three Volumes of Mathematicks, the first of which he printed in 1743, was in March 1744, feiz'd with a violent Fever, which baffled the Art of the Phylicians, and hurried him out of this Life, before he had half finish'd his fecond Volume; but had he lived, this Work would have been much be ter

The PREFACE. vii better done, and placed, as he intended, in his Third:

At his Death many of his Papers coming into my Hands by his Defire, I fet about to calculate the Remainder of these Tables, most of which I

had done in his Life-time.

Some of the Examples, and the Demontrations, I collected from his Papers, and have endeavour'd to make
every. Thing as correct and intelligible
as possible; but if thro' Inadvertency
any little Mistake shou'd occur to
the Reader; as no Body has supervis'd this Work after me, I hope he
will correct it with his Pen, and candidly pass it by.

In the last Place, I have applied these Tables to the Solution of two geometrical Questions, viz. the sixth Question proposed in the last Year's Gentleman's Diary, and the Seventh Prob. of WARD'S Introduction to the Mathematics, p. 326. of the third Edition, which last is there solv'd by a

W. BROWN

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Cubic Equation; but by means of these Tables such Questions (where the Sum of the Hypothenuse, added to either Side, or the Difference betwixt the Hypothenuse and either Side, and the Area of any right-angled Triangle are given) will be folved by a simple Equation as signification in Some

I must beg Leave here to acquaint the Publick, that Dhave now ready for the Press, a Treatise on Fluxions? wherein the Doctrine of that Tublime Art, will be treated in a plain and familiar Way, which will contain felveral new Theorems of Mr. THACKER'S never before published, and the De monstrations of those, particular Two, viz. for finding the Area of the Hyperbola; and Circle's Segment; which, the * Author of a most ingenious Piece fays, depend on Principles not yet publickly known, till the Invenfor shall think fit to publish them.

bride off . Mr. Shirteliffe.

CLEOBURY, MAR. 8. 1745.

W. Brown.

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ERRATA.

PAGE 3, Line 8, instead of Logarithm Tanger of $\frac{y}{x}$, read Logarithm Tangent of $\frac{x}{y}$. Page 4, Line 5, instead of $2ba-a=c^2$, read $2ba-a^2=c^2$. Page 8 Line 13, instead of 10851308, read 1.0851308. Page 16, Line 21, instead of qa^3 , read qa^2 . Page 19, Line 22 instead of their, read the.

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ANEW

METHOD

Of Solving

Adfected, Quadratic, Cubic, and Biquadratic Equations.



HE READER is here supposed to understand the Nature of Equations in general, such as their Generation, the Number of their Affirmative and Negative Roots, and the common Methods of transform-

ing them; which being known, he will be the better prepar'd to comprehend this new Method of their Solution.

CHAP. I.

Of the Resolution of Quadratic Equations.

HERE are three Cases; first, when the E-quation to be resolved is in this Form, $a^2+2ba=c$; secondly, when it is in this Form, $a^2-2ba=c$; and thirdly, when it is in this Form, $a^2-2ba=c$; and thirdly, when it is in this Form,

CASE I

To find the Value of a in a +2ba=c?

SOLUTION.

A SSUME $a^2+2ba=c^2$, and find the Value of $\frac{\pi c}{b}$ = the Difference of the Logarithm of half the Co-efficient of a, taken from half the Logarithm of the absolute Number cc, added to Radius, in the Tables of Logarithm Tangents; and let the Tangent of half the Number of Degrees corresponding thereto, be expressed by $\frac{\pi c}{y}$ then will $rcx = \frac{\pi c}{y}$ which is the Logarithm Cotangent of $\frac{\pi c}{y}$ subtracted from the Logarithm of rc be = the Value of a.

EXAMPLE.

Let there be given $a^2+7a=144$, or $a^2+2ba=c^2$ to find a? Here half the Logarithm of 144 + R2-dius is rc=10+1.0791812; and the Logarithm of half 7 is b=0.5440680 and 11.0791812 Minus 0.5440680 is = 10.5351132 = $\frac{rc}{b}$ which found in the Tables of Logarithm Tangents is 73°: 44': 23': 15", the Logarithm Co-tangent of whose half is 10.1249390, which taken from 11.0791812 leaves 0.9542422 = Logarithm of a, a=9. C. A.S. E.

CASE

CASE II.

To find the Value of a in a3-2ba=c?

Solution.

PUT $a^2-2ba=c^2$, and find as before in Cafe I. the Value of $\frac{rc}{b}$ in the Tables of Tangents, and let the Co-tangent of half the Number of Degrees opposite thereto be $\frac{y}{s}$, then will $rex = \frac{y}{s}$ which is $\frac{y}{s}$ Logarithm Tangent of $\frac{y}{s}$ subtracted from the Logarithm of rc be = a.

EXAMPLE.

Given $a^2-7a=120$, or $a^2-2ba=c^2$. Quere a? Here the Logarithm of half 7 is =0.5440680, which subtracted from half the Logarithm of 120 + Radius = 11.0395906, leaves 10.4955226; this answers in the Tables of Tangents to 72° : 16': 51'': 40''', the Tangent of half which is 9.8634991, and this taken from 11.0395906, gives 1.1760915 = Logarithm of a: a=15. Q. E. I.

CASE III.

To find the Value of a in 2ba-a'=c?

SOLUTION.

HERE put $2ba-a^2=c^2$, and find the Value of $\frac{rc}{b}$ in the Tables of Sines, and let the Co-

tangent of half the Number of Degrees correspondent be called $\frac{y}{x}$; then will $rcx \frac{y}{x}$, as in the last Case, be =a.

EXAMPLE.

Given $25a-a^2=136$, or $2ba-a=c^2$. Quere the Value of a? Now the Logarithm of Half 25 is =1.0969100 which subtracted from half the Logarithm of 136 + Radius = 11.0667694, leaves 9.9698594; this answers in the Tables of Sines to $68^\circ: 53': 59'': 12'''$ or $111^\circ: 6': 0'': 48'''$; the Tangents of whose Halves are 9.8363202 and 10.1636798, and each of these subtracted from 11.0667694, gives 1.2304492 and 0.9030896 =Logarithms of a, a: a=17 or 8. Q. E. I.

COROLLARY.

By a just Observation of the Premises, may be deduced this short Rule for solving all Quadratic

Equations.

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From half the Logarithm of c + Radius (=L) fubtract the Logarithm of b, find the Difference in the Tables of Logarithm Tangents, if the given Equation be of the 1st or 2d Form; or in the Tables of Sines, if of the 3d, then subtract, if the Equation be of the 2d or 3d Form, the Logarithm Tangent of half the corresponding Number of Degrees (or the Co-tangent of half the Degrees, if it be of the 1st) from L above, and the Remainder will be the Logarithm of a sought. See the Forms,

Having found the one Value of a, the other is easily obtain'd from a due Consideration of the Genesis of Quadratics, whereby it appears that the Sum of both the Roots must ever be = to 2b:

For

For Instance, the two affirmative Values of a in the 3d Case, are 17 and 8, whose Sum is 25 = 2b ... by having the one of them, the other is got by Subtraction. But then this Sum of them in the 1st and 2d Case, will always be affected with a contrary Sign to 2b ... by subtracting the affirmative found Value in either of these Cases from 2b with a contrary Sign to what is in the given Equation, the Remainder will be the negative Value required. Thus in Case 2d the affirmative Value of a is found = 15, and 2b is = 7 ... +7 - 15 is = 8 the negative One. And so in Case 1. the affirmative Root of a is = 9, and 2b is = +7 ... -7 -9 = -16 the negative One.

The Demonstration of the foregoing Cases.

N the right-angled Triangle A CB, right-angled at C. let the Perpendicular CP be drawn from the Right-Angle upon the Hypothenuse AB: Then put c=CP, ab the Difference betwixt AP and PB, and let PB be made = to a, then per similar Triangles AP : PC :: PC : PB; that is, 2b+a: c:: c: a : a2+2ba=c2. But if x and y be put for the Sine and Cofine of the Angle BAC or PCB, and Radius = r, then per Trigonometry x : c :: y =AP, and also $y:c:x:\frac{cx}{v}=PB$, but PA-PB $=2b=\frac{cy}{x}-\frac{cx}{y}$: $cy^2-cx^2=2byx$, and $\frac{rc}{b}=\frac{2ryx}{y^2-x^2}$ (r being = Radius) is the Tangent of an Arch double to that of the Angle BAC or PCB, which being

being known, then (as above) $PB = c \times \frac{a}{y}$, or rather $c \times \frac{a}{y} = a$, which is the Demonstration to Case 1.

Again, if a be put to express the Segment AP, then by Computation $a^2-2ba=c^2$; but $\frac{rc}{b}$ is still

 $= \frac{2rys}{y^2 - x^2}, \text{ which being known, } AP = rex \frac{y}{x} = a,$ which demonstrates the 2d Case.

Lastly, If b be put to express the whole Base AB, and a represents either AP or PB, then by Calculation $ba-a^*=c^*$. And fince $AP=\frac{c\gamma}{x}$, and $PB=\frac{c\kappa}{y}$, hence $\frac{c\gamma}{x}+\frac{c\kappa}{y}=b=AB$, $c\cdot c\gamma^*+c\kappa^*=b\gamma s$, or (because $\gamma^2+\kappa^2=1$) it is $c=b\gamma \kappa$ or $rc=rb\gamma \kappa$, and $\frac{2rc}{b}=2r\gamma \kappa$ the Sine of an Arch, which is double to that of the Angle BAC or PCB, which being known $rcx = \frac{\gamma}{x}$ will be c=pA or PB, which is the Demonstration to Case 3d. And since the Sine of an Arch, and that of its Supplement are the same, this Case will be ambiguous.

CHAP. II.

of the Resolution of Cubic Equations,

OUBICS are most easily solved by the help of the new Tables hereto annex'd, whose Theory is given further on, and whose Practice will be sufficiently shewn in the following Cases.

CASE I.

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To find the Value of a in a bac?

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A SSUM E $a^3-ba=2c$, and find the Value of $\frac{rb\sqrt{b}}{c}$ = Logarithm of c subtracted from half the Logarithm of b, added to the Logarithm of b, Plus Radius in the Tables under the Title of $\frac{rb}{c}$ = $\frac{bx}{2c}$, and let the Tangent of the opposite Number of Degrees be called t, then will $\frac{r\sqrt{b}}{c}$ = Logarithm Tangent of t, taken from half the Logarithm of b Plus Radius be equal the Value of a.

EXAMPLE.

Given $a^3-148a=672$, or $a^3-ba=2c$, to find a? Here c=336, and b=148, whose Logarithms are 2.5263393 and 2.1702617, half of which last is 1.0851308 = \sqrt{b} . $\therefore rb=12.1702617$ and 12.1702617 Plus 1.0851308 Minus 2.5263393 is $=10.7290532=\frac{rb\sqrt{b}}{c}$, to which answers 40° 59' the next least in the Tables of $x^3-bx=2c$, but to find it more exact, proceed thus; divide half the Difference betwirt the Number to be sought for in the Tables and the next least to it, = here to 4347.5 by the Difference betwirt the Numbers corresponding to $40^\circ:59':30'=1691$, and the Quotient .3718 is the Decimal of a Minute $=22^\circ:20''$ over and above to be added

to 40°: 59' (or subtracted from the greater oppofite Degrees when the Tabular Numbers decrease); then will the Logarithm Tangent of which be 9.939C028, which taken from 11.0851308=r/bl

leaves 1.461280= rvb = Logarithm of a, . a=

14, one of its Values, which is Affirmative.

But in order to find the Negative Values of a the Number 10.7290 532 before found under x3-bx =2c, must now be sought for under bx-x3=2c in the Tables, which gives 26°: 15': 8": 37", and alfo 33° : 19 : 43" : 30", whose Tangents are 9.6930205, and 9.8179590, each of which added to 108 51308 Minus Radius = (see the following Cafe) will exhibit the Logarithms of 0.7781513; and 0.9030898, = 6, and 8, for the two Negative Values of a. : a = + 14, -8, or -6, for a-14xa+8xa+0=a3-148a-672=0, the given Equation. Q. E. I.

I have been the longer about this first Case's Example, in order to make every Thing as plain as possible to the Reader. are 2. 5265309 and 2.1702617. half

in setades a sonial tops to a sold fraction CASE II.

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ent grasfing doubt of e To find the Value of a in ba-23=c?

in Therence between Turk of to be lought per

UT ba-a=2c, and finding the Value of in the Pables under the Title of -x1=2c, we get the Number of Degrees corresponding

responding whose Tangent call t, then will $\frac{tVb}{r}$ be = the Value of a.

EXAMPLE.

Given 364a-a=2640, or ba-a=2c. Quere Here the Value of $\frac{rb\sqrt{b}}{c} = \frac{r26\sqrt{364}}{364}$ 10.7210782, is to be lought for in the Tables of bx-x3=2c, against which is found 27°: 39': 39": 20", and also 32°: 10': 07": 20", whose Logarithm Tangents call t, and T, then will the Logarithm of W 36 0.9999999 and = 1.0791813, which answer in the Tables of Logarithms to 10, and 12, be the two Affirmative Values of a. And if the above Number 10.7210782, be found in the Tables of x3-bx=26. we shall find it = 40°: 55': 56": 39", whose Tangent call t, then as in Case I, will the Logarithm W 364 = 1,3424927, which answers in the Tables of Logarithms to 22, be the Negative Value of a, ... a=+10, +12, or-22 for a-10xa-12xa+22=a3-364a+2640=0, the given Equation. Q: E. I.

in the Tables un III. A S A C in Case II. and

To find the Value of a in as +bas=c?

SOLUTION.

A SSUME $a^3+ba^2=4c^3$, find the Value of $\frac{rb\sqrt{b}}{c}$

in the Tables under $x^3-bx=2c$, as in Case I. and call the Tangent of the correspondent Number of Degrees t, then will a be $=\frac{2cL}{r\sqrt{h}}$.

EXAMPLE.

IIIMANTI.

Given $a^2 + 9a^2 = 1900$, or $a^2 + ba^2 = 4c^2$, to find a^2 . Here $\frac{rb\sqrt{a}}{c} = \frac{r9\sqrt{9}}{475}$ is = 10.0930169, which answers in the Tables of $x^2 - bx = 2c$, to $34^\circ : 32' : 15'' : 18'''$, whose Logarithm Tangent is 9.8377445. then will $\frac{2ct}{r\sqrt{b}} = 9.8377445 + 1.3383468 + 0.3010300 - 10.4771212 = 1.0000001 be = the Logarithm of <math>a$; a is = 10, the only Affirmative, and possible Value of a; since 10.0930169 is not to be found in the Tables of $bx - x^2 = 2c$. Q. E. I.

Hardin doid CASE IV.

To find the Value of a in ba -a -a -c?

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MAKE $ba^3-a^3=4c^3$, find the Value of $\frac{rb\sqrt{b}}{c}$ in the Tables under $bx-x^3=2c$, as in Case II. and call the Tangent of the correspondent Number of Degrees t, then will a be $=\frac{2cr}{t\sqrt{b}}$.

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EXAMPLE.

Given 2003-03=1152, or ba,-03=46° to find r20/20 is=10.7218488 which answers in the Tables of bx-x3=2c to270:29':38":6", and also 32°: 18': 41": 32" whose Logarithm Tangents call t, and I, then will the Logarithm of 21/288 = 1.1638471, and 1/20 which answer in the Tables of Logarithms to 14. 983. and 12, be the two affirmative Values of a. if 10.7218488 be fought for in the Tables under 2-bx=2c, we shall find it =40°: 56': 16': 33" whose Tangent call t, then as in Case III. will 2tv 288 be=0.8184239, which in the Logarithm ry 20 Tables is=6.583 the negative Value of a, .. a=+ 14.583,+12, or -6.583 for $a-14.583 \times a-12 \times$ a+6.583 is = $a^2 - 20a^2 + 1152 = 0$, the given Equation. Q. E. I.

CASE V.

To find the Value of a in a3+ba=c?

SOLUTION.

PUT $a^3+3ba=2c$, and find the Value of z in $z^6-2cz^3=b^3$, by the foregoing new Method of folving Quadratic Equations, then will $z-\frac{b}{z}$ be=a.

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EXAMPLE.

Given $a^3+627a=2572$, or $a^3+3ba=2c$, Quere a? Substitute the Value of b=209, and of c=1286 in $2^6-2c23=b^3$, then (by Case II. of Quadratics) half the Logarithm of b^3+ Radius is =13.4802194, from which subtract the Logarithm of c=3.1092410, and there remains 10.3709784, which answers in the Tables of Logarithm Tangents to $66^\circ: 56': 40''$, the Tangent of whose Half is 9.8204170, and this taken from 13.4802194 leaves 3.6598024 = the Logarithm of 23: 2=16.593 c. and $\frac{b}{z}=12.593$ c. Hence $z-\frac{b}{z}=a=4$. The other Values of a are found by the common Method of Division, &c. to be impossible. Q. E. I.

CASE VI.

To find the Value of a in a²+ba²+ga=c univerfally?

SOLUTION.

MAKE $a^3+3ba^2+ga=c$, find the Value of z in $z^3+gz=c+gb$ and then will z-b be equal to a,

EXAMPLE I.

Given $a^3+3a^2+2a=2184$, or $a^3+3ba^2+ga=2$, to find a^2 . Here by substituting b=1, and g=2, in $a^3+g^2=c+gb-2b^3$, we get $a^3-g=2184$, from whence (by Case I. of Cubics) $a^3-g=2184$, from Hence

Hence z-b is=a=12, the only Affirmative, and possible Value of a. Q. E. I.

EXAMPLE II.

Suppose $a^3-6a^2+2a=888$, or $a^3-3ba^2+ga=c$, Quere a? Here because b is Negative, therefore every Term wherein there is an odd Power of b must be changed in z $\frac{3-3b^2}{+g}z=c+gb-2b^3$. And because b is =2, and g=2: Hence z^3-12 z=888-4+16 is $z^3-10z=900$, from which by Case I. of Cubics, z will be found =10, and here twill be z+b=12, the only Affirmative, and possible Value of a. Q. E. I.

EXAMPLE III.

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If $a^3-9a^2-4a=4320$, Quere a? Here b=3, and g=4 are both Negative: Hence $z^3 = -\frac{27}{4}z = 4320+12+54$ is $z_3-31z=4386$, which being folved by Case I. of Cubics, gives z=17; and z+b=20, the (only possible) Value of a, which was required.

EXAMPLE IV.

Given $-a^3+330a^2-1600a=8125$, to find a^2 . Here by Transposition $a^3-330a^2+1600a$ is =-8125, where b and c are both Negative: Hence by Substitution $z^3-36300$ z=-8125-176000 +1600 z=-8125-176000 +2662000 becomes $z^3-34700z=2477875$, which being solved by our Method, z will be found=215, and z=b is z=325; but z=247875, which being solved by our Method, z=3450 be also found=101.91, z=b0 is z=3251 but z=3252 but z=3253 but z=3253 but z=3253 but z=3253 but z=3254 but z=3255 but z=3255

Having now sufficiently exemplified these new Tables in the Solution of the preceding Cases, we come next to their Demonstration.

The Demonstration of the foregoing CASES.

N the Triangle

ABC, right angled

at B, let the Difference betwixt AC and

BC be called d; the

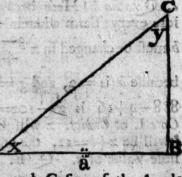
double Area of the

Triangle ABC, A;

and AB be \Rightarrow a, then

by a Process in Alge-A

bra we get $a^3-d^2a=$



2dA; but if the Sine and Cofine of the Angle BAC be expressed by m and y respectively, Radius being = 1; we have $(per\ Trigonometry)\ y: a::x:$ $\frac{dx}{y} = BC, \quad \frac{an\pi}{y} = A; \text{ again, } y: a::1: \frac{a}{y} = AC;$

hence $\frac{a}{y} = \frac{ax}{y} = a$, $a = d \times \frac{y}{1-x}$ and $a^2 = d \times \frac{y}{1-x}$

$$\frac{y}{1-x}$$
 which put for a^2 above makes $d^2 \times \frac{y}{1-x}$ ×

 $\frac{x}{y} = A$, $\therefore \frac{y}{1-x} \Big|^2 \times \frac{x}{y} = \frac{A}{a^2} =$ to the Square of the Cotangent of half the Angle ACB, drawn into the Cotangent of the whole Angle ACB.

Again, If s be put for the Sum of AC and CB; then by a like Process we get $s^2a - a^3 = 2sA$; $a = s \times \frac{y}{1+x} = s \times \frac{1-x}{y}$ and $\frac{A}{s^2} = \frac{1-x}{1+x} \times \frac{x}{y} = to$ the Co-

tangent of the Angle ACB, divided by the Square of the Cotangent of its half.

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Hence the Demonstration of the Calculus of the Tables: For if we take the Angle $ACB = 10^\circ$, then will the Logarithm Tangent of $90^\circ - 10^\circ = 80^\circ$ being made more, and less, by the Double of the Logarithm Tangent of 40° give the Value of $\frac{y}{y} \times \frac{x}{y} = \frac{A}{a}$; and $\frac{1-x}{y} \times \frac{x}{y} = \frac{A}{s^*}$; the former of which is 10.6013082 placed under 10.9082 placed under 10.9082 and the latter is 10.9080542 placed under 10.9082 and fo for any other Degree, &c. Q. E. D.

COROLLARY II.

Hence the Demonstration of the Ist Case of Gubics, viz. $a^3-ba=2c$, or $a^2-d^2a=2dA$, by the Help of these Tables may be deduced; for d=b, and 2dA=2c ... $d=\sqrt{b}$, $c=\sqrt{b}\times A$, and $A=\frac{c}{\sqrt{b^2}}$ but before $\frac{A}{d^2}$ was found $=\frac{y}{1-x}\Big|_{x=y}^{2}$ where to $\frac{c}{\sqrt{b^2}}$ or rather $\frac{1-x}{y}\Big|_{x=y}^{2}$ $=\frac{rb\sqrt{b}}{c}$ (supposing r=Radius) being more ready in Practice, is—to the Degrees in the Tables under $x^3-bx=2c$, whose Tangent let be t, then because 'twas before prov'd that $dx = \frac{y}{1-x}$ was =a, and here d being $=\sqrt{b}$, and $=\frac{y}{1-x}$ is $=\frac{r+x}{y}$ = the Co-tangent of half the Angle BCA= also to $=\frac{r\sqrt{b}}{c}$. Q. E. D.

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COROLL ARY III.

Hence also the Demonstration of the 2d Cole of Cubics, viz. $ba-a^3=2c$ or $s^2a-a^3=2sA$, for by proceeding, as in last Corollary, we get s= 1 b, and $\frac{A}{x} = \frac{c}{b\sqrt{b}} = \frac{1-x}{y} \times \frac{x}{y}$, or rather $\frac{y}{1-x} \times \frac{ry}{x} = \frac{1-x}{x}$ is = to the Degrees in the Tables of bx-x3 =2c, whose Tangent call t, then because 'twas before prov'd that sx $\frac{y}{r+s}$ was = a; and here s being = \sqrt{b} , and $\frac{y}{r+x} = \frac{1}{r}$ and is = $\frac{1}{r}$. Q. E. D.

The Demonstrations of the other Cases are easily prov'd from what has already been deliver'd, except that of the 5th Case, which is deduc'd from the Rule commonly afcrib'd to CARDAN. 100 CIST

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Of the Resolution of Biquadratic Equations.

LL Sorts of Biquadratic Equations may he folv'd by the Intervention of Cubic ones, thus: gent let be t, then belong Rus be

Let the Equation propos'd to find the Values of a, be a4+ga3+ra+s=0, (whose second Term is taken away) find first the Root of this Cubic Equation $x^3 + 2q$ $x^2 + q^2$ $x - r^2 = 0$ by the foregoing new Method, then making $\sqrt{x} = e$, $\frac{q + e^2 - \frac{7}{\epsilon}}{\epsilon} = \epsilon$, and Coxol.

 $q+e^{3}+\frac{1}{e}=d$; and the original Equation will be refolv'd into these two Quadratics, viz. a2+ea+c =0, and a2-ea+d=0, each of which being folyed by the new Method of Quadratics, will exhibit the Value of a requir'd.

DEMONSTRATION.

Let the two Quadratic Equations a +ea+c=0, and a2-ea+d=0, whose middle Terms +ea, and -ea, are equal, and contrary, be multiplied together, and there will refult a Biquadratic Equation, whole fecond Term is wanting; for they will produce +c +ed - A 3 a d + d a a - cd = 0.

state to man at a seconwhich put = to the given Equation at +qui+rat s=0; from whence we have c+d-e=q, ed-ec=r, and ed=s, ... d+c=q+e2, and d-c= -; and by adding and fubtracting thefe, and taking the half of each, we get $e = q + e^2 - a$ and $d = q + e^2 + c$ Multiply these two together, and we have $q^2+2qe^2+e^4-e^2=dc$, which is =s, then by Re-

duction we get estages +q e-r=0: Put x=e, and the Bicubic will become $x^3+2qx^2+q^2$ * - $r^3=0$, from whence the Rule is evident. Q. E. D.

Vol. II. D Exam-

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Given -0-1270-140=120, to find a? By transposing the Equation, 'cis a-27a-14a-120 and s=+120, and by substituting these Values in x1+2qx3+q2 -480 x have x1-34x2+729 196=0=x3-54x3+240x-196=0, which Equation being folv'd by Cafe VI. of Cabics, gives =1, 4, or 49, : 'e is = 1, 2, or 7, either of which Numbers being put for v, in 9+6 - and 4+6+6 will give c, and d; for which put their Equals in a2+ca+c=0, and a2-ca+d=0, and find the Affirmative and Negative Roots of a in each of these Quantities, (according to the foregoing Methods) and those shall be the Values of a in the original Equation: Thus if e be taken = 1, then is e = -6, and d = - 20 : a + a = 6 and a - a = 20, which two Equations being folvid, the former gives a +2, or -3, and the latter a=+5, or -4,

A REMARK.

which are the true Roots of the given Equation for $a-2\times a+3\times a-5\times a+4$ is $=a^4-27a^2-14a+120$

Here by the Bye, it may be observed, that he any Equation, whose second Term is wanting, all the Affirmative Roots taken together, are equal to all the Negative ones taken together; as in the last Example +2. +5. is = -9. -4. And in the first Case of Cubics, the Roots of a in a²-1484 = 672, were found = +14, -8, and -6, where +14=-8, -6. And so in Case II. where 364a -a³=2640a was found = +10, +12, and -22; all which prove the Truth of this Remark. Ex-

Given $a^4-60a^2+1650a^2-22500a+115344=0$,

Quere a? In order to take away the fecond Term,

fubfilitute y+15 inftead of a in the Equation, and it

will be converted into $y^4+300y^2-2781=0$, which

is a Quadratick Equation; being folved by Cafe I.

p. 2. we get $y^2=9$, (or—300 impossible;) and confequently a, one of it's required Values, is 18, because a=y+15; now let the given Equation be

divided by a=18, and we have $a^2-42a^2+804a-6408=0$, from which by Cafe VI. of Cubics, awill be round a=12, the other Values being found

to be impossible.

But it the Solution of the Quadratic Equation y + 300y = 2784 be justly confider'd, it will evidently appear, that y may be as well -3, as +3, fince either of them involv'd will form the Equation, x - a will then be found either 3 + 15, or

+15-3, =18, or 12, at once.

But let y+300y-2781=0, be an Equation to be refolv'd by the general Rule, where q is =300 r=0, and s=-2781: Here their Cubic Equation, first to be solv'd, is $x^2+600x^2+101124x-2$, or because $x^2=0$, 'twill be $x^2+600x^2+101124$ x=0; now as x is found in every one of the Terms, it is an infallible Rule that one of its Values is x=0; dividing the Equation by x=0, to discover the other Roots, we have this impossible Equation $x^2+600x+101124=0$, and $x^2+600x+101124=0$, and

Difficulty now lies in finding the Value of , whose Terms are both equal to nothing; for the r and e D 2

may be equal to nothing, when consider'd in Conjunction with finite Quantities, yet, when compar'd one with another, they may be in any Ratio. Therefore to forward our Enquiry, says Dr. Saunderson, suppose the Quantities r and e to be finite, and to pass in a finite Time from something through Degrees of Magnitude into nothing, so as to vanish both together, and so discover, if we can,

the ultimate Magnitude of the Fraction -; to this End, let us resume the Equation x1+600x2+ 101 124x-rr=0, that expresses the Relation of r to a or rather of r to x in general, whether it be finite or infinitely fmall, where, by a must be understood the least Root of it: Now by this Equation it is plain that when r is formerhing, or nothing, will be fo too; they will both vanish togerher. It is plain alfo, that when w is nothing or father in its last State of Existence, the first Term wi will be infinitely less than the fecond 600x2, because x which is nothing is infinitely less than 600, which is something : For the same Reason 600x will be infinitely less than 101124x; othe two last Terms of the Equation will give the last Relation of r to w as effectually as the whole: Refeet then the two first Terms, and we shall have sense I od to enorgate whether a survey on a come

101124x -r = 0, $r = \frac{1}{101124}$, and \sqrt{x} , or $e = \frac{1}{101124}$, thus then the last Ratio of r to e, is that of

7 to 318, or of 318 to 1, and the last Magnitude

of is 318 or 318: This being known, we shall

have $\frac{q+2}{2}$ or c=-9, and $\frac{q+2}{2}$ or a=+309.

and the Equations derived from this Supposition e = 0 will be yy - 9 = 0, and yy + 309 = 0. yy = 9 and y = 1/2 being

impossible, &c. Q. E. I.

It is not without the utmost Pleasure and Surprize (proceeds the Doctor) that I observe, what admirable Shifts Nature has to bring herself off upon all Occasions when she seems to be surrounded with insupportable Difficulties; Shifts so far beyond all human Contrivance, that it is not always in the Power of human Understanding to trace out her Steps, and follow her, much less to prescribe to her: But the sublimer Parts of Mathematics, and more particularly the Doctrine of Fluxions, surnish as still with more frequent and pregnant Instances of this Kind, insomuch that the ancient Sage (whether he knew it or not) had a great deal of Reason on his Side, when he cried out as he did,

Magna est veritas, & prævalebit.

Having now finish'd the Business of solving adfested Equations, and, I hope, made every Thing sufficiently plain, give me leave to apply these Tables to the Solution of the two Questions mentioned in the Presace, and I have done.



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In any right-angled Triangle, the Arta = 294, and the Difference between the Hypothenuse and Perpendicular = 14 being given; to find all the other Parts of the Triangle by a Simple Equation.

Sor of Ton Samuel Is heey

OUT 2.8= twice the Area = 588; d= the Dif-Angle BCA, (See Fig. p. 14) 1= Tangent of the half the Angle BCA, Radius =1, and =AB; then (per Trigonom.) as T: 1: a: # = BC. MB x BC = 2A, is of and .. and .. a= 2AT. Again (per Theorem page 38. line 17. of Mr. THACKER'S MISCELLANY, &c. 21 Sine of the Angle BCA, and 1+12 its Coline, viz. the Sine of the Angle BAC.) we have 4413: 6: 4+1 a - ra = BC, and $\frac{2t}{1+t^2} : a :: 1 : \frac{a+t^2a}{2t} = AC$, AC-BC=d is to $a=\frac{d^2}{d^2}$, which being wrote for an above, makes = 2 AT . d'= 2ATP and $\frac{d^2}{2A} = TP$, in Logarithms $\frac{d^2}{2A}$ is = 9.5228787, which answers in the Tables of Ita (or x3-bx=2c) to 26°:33':54":10" :: half the Angle, Angle BCA, $a = \frac{d}{1} = 28 = AB$, and $\frac{dA}{d} = 21$ =BC, confequently AC = 35. Q. E.1.

QUESTION II.

In any right-angled Triangle, the Area and the Sum of the Hypothenuse, when added to either Side, being given, thence to find the Sides, &c. (See Ward, &c. P. 326.)

SOLUTION.

SUPPOSE $AB \times BC = 2A = 2700$, and AC + BC = 5 = 120, to find the Sides. (See Fig. pag. 14.) By proceeding to find BC and AC, as in the last Question, we shall get $s = \frac{a}{r}$: s = 4s, and $a = \frac{a}{r} = 10.7269986$, which answers in the Tables of $\frac{T}{r^2}$ (or $bx - x^2 = 2c$) to $26^\circ : 33' : 54'' : 19'''$, ... a = 4s = 60 = AB, and $\frac{2700}{60} = 45$ is = BC, and consequently AC is = 75. Q. E. I.

But 10.7269986 answers in the Tables of $\frac{7}{1^8}$ to 33°: 4': 47": 14" also, ... we have 78.1667 for another Value of a, and $\frac{2700}{78.1667}$ =34.54156 is = 85.45844, which will also answer the Conditions of the Question.

Because a==2 AT. See the other Solution.

Now.

Now if the Cubic Equation given by Ward, biz. 14400 a—a=648000 be folved by Cafe II. pag. 8. we shall find the Values of a to be + 60, and +78.1667 the same as before, and the Sum of those two Affirmative Values, with a contrary Sign, will be = - 138.1667 the Negative one, by Remark pag. 18.

In any right-angled Friangle, the Arch and the Sum of the Hypothemyle, when added to either Side, being given them at to find the Sides, Sec. (See, Ward, Oc. Pt 226)

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11=60=113 and concents = 15 is = BC, and confequently AC is = 73. Q. E. 1.

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be of confequently of is = 85-45' 45' which will also animor the Conference of the Quellion, the conference of the Confe

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30 0 30 30 31 0 31 30 32 0 32 30	4 1450595 4 1663641 4 1871035 4 2077335	12.3602047 12.3531435 12.3459657 12.3391271 12.3321791 12.3255492	45 30 46 0 46 30 47 0	4.6663423 4.6806374 4.6946759 4.7086642	12.1841411 12.1793957 12.1745978 12.1699541 12.1652602 12.1607137
33 0 33 30 34 0 34 30 35 0	4.2673285 4.2867301 4.3056619	12.3188166 12.3123833 12.3058533 12.2996051 12.2932658	48 30 49 0 49 30	4.7495603 4.7629731 4.7761597	12.1561191 12.1516659 12.1471667 12.1471667 12.1428031 12.1383952
35 30 36 0 36 30 37 0 37 30	4.3612111 4.3791034 4.3969141	12.2871925 12.2810331 12.2751252 12.2691357 12.2633843	51 0 51 30 52 0	4.8151104	12.1341176 12.1297974 12.1256029 12.1213668 12.1172515
38 30 39 0 39 30 40 0	4.448020	12.2575557 12.2519527 12.2462769 12.2408146 12.235283	53 30 54 0 54 30	4 877442	12.1130961 12.1090581 12.1049816 12.101016 12.097015
40 30 41 0 41 30 42 0 42 30	4.514627 4.530683 4.546416 4.562085	3 12.2299552 5 12.224561 2 12.219361 8 12.214097 8 12.209019	55 30 56 0 56 30 857 0	4.925278 4.937003 4.948554 4.960071	6 12.0931216 0 12.0891926 4 12.085367 8 12.081508 1 12.077749
43 00 43 30 44 00 44 30 45 0	4.592749 4.607757 4.622708 4.637379	612.203880 812.198918 712.193898 112.189047 712.184141	8 58 6 4 58 36 7 59 6 3 59 36	4.982739 4.993895 5.005020 5.015988	6 12.073958. 8 12.070263 3 12.066537 0 12.062904 8 12.059240

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02°0 0 30 1 0 1 30 2 0	5.0377139 5.0484713 5.0590830 5.0696660	12.0592408 12.0556679 12.0520653 12.0485502 12.0450064 12.0415474	15 30 16 0 16 30 17 0	5.3264493 5.3350738 5.3436044 5.3521165	11.9623805 11.9595157 11.9566318 11.9538044 11.9509585			
2 30 3 30 4 0 4 30 5 0	5.0905218 5.1007991 5.1110494 5.1211672	12.0380606 12.0346559 12.0312242 12.0278722	18 30 19 30	5.3689396 5.3772529 5.3855485 5.3937573	11.945358 11.942602 11.939829 11.937108 11.934370			
5 30 6 0 6 30 7 0 7 30	5.1412223 5.1511604 5.1609738 5.170762	12.0211931 12.0178668 12.0146152 12.011339 12.0081356	20 30 21 0 21 39	5.418145	11.931683 11.928979 11.926325 211.923655 11.921032			
8 30 9 30 10	5.199601	12 004908 12.001751 611.998571 411.995460 711.992325	5 23 30 5 24 10 5 24 3	5.457764 5.465564 5.473288	111.918394 811.915804 911.913197 311.910637 411.908062			
11 30 11 30	5.246354 5.255481 5.264586	311.989258 011.986169 011.983144 911.980098 211.977115	2 26 4 26 3 5 27	0 5.496247 0 5.503792 0 5.511322	3 11.900485			
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33 36 33 36 34 36 35 36	5.6052736 5.6122416 5.6101483	11.8690331 11.8667192 11.8643928 11.8621033 11.8598016	48 30 49 0 49 30	5.7993542 5.8053617 5.8113236	11.8041663 211.8021722 711.8001686 511.7981930 11.7962086		
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41 41 3 42	o 5.705922 o 5.712353 o 5.718774	6 11.835396 7 11 833232 7 11.831101 1 11.828958 3 11.826848	7 56 30 1 56 30	5.886572 5.892176 5.897772	4 11.775057 111.773176 5 11.771319 8 11 769454 6 11.767612		
44	5.737807 0 5.744103	11.824727 11.822636 1911.820535 1411.818465 1111.816385	5 58 30 9 59 0 4 59 30	5.914388 5.919890 5.925354	15 11.765763 6 11.763938 6911.762104 1911.760294 1311.758476		

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30 0 30 30 31 0 31 30 32 0 32 30	6 2264800 6 2308173 6 2351307 6 2394394	11.6617656 11.6603288 11.6588873 11.6574601 11.6560282 11.6546104	45 30 46 0 46 30 47 0	6.3584880 6.3624100	11.6178735 11.6165754 11.6152737
33 30 33 30 34 0 34 30 35 0	6.2522630 6.2565160 6.2607461	11.6531879 11.6517792 11.6503660 11.6489667 11.6475628	48 30 49 0 49 30	6 3740945 6.3779712 6 3818288	11.6126888 11.6114061 11.6101196 11.6088446 11.6075659
35 30 36 0 36 30 37 0 37 30	6.2733734 6.2775497 6.2817217	11.6461723 11.6447774 11.6433959 11.6420101 11.6406375	51 0 51 30 52 0	6.3933495 6.3971625 6.4009719	11.6062983 11.6050271 11.6037669 11.6025031 11.6012504
38 30 38 30 39 0 39 30 40 0	6.2941410 6.2982606 6.3023587	11.6392606 11.6378966 11.6365282 11.6351729 11.6338134	53 30 54 0 54 30	6.4160854	11.5999941 11.5987485 11.5974994 11.5962611 11.5950194
40 30 41 0 41 30 42 0 42 30	6.3145941 6.3186417 6.3226853	11.6324664 11.6311153 11.6297767 11.6284341 11.6271039	56 c 56 30 57 0	6.4273041 6.4310273 6.4347329 6.4384350	11-5937881 11-5925533 11-5913291 11-5901014 11-5888842
43 30 44 0 44 30 45 0	6,3347254 6,3387198 6,3426940	11.6257697 11.6244476 11.6231214 11.6218074 11.6204895	58 30 59 0 59 30	6.4458015 6.4494658 6.4531269 6.4567710	11.5876635 11.5864530 11.5852393 11.5840356 11.5828286

Minutes	Seconds	× —b x= 20	b ≈—≈³ =2c	Seconds Minutes	x³—bx=20	5x-x³=20
0 0 1 1 2 2	0 30 0 30 0 30	6.4640359 6.4676567 6.4712608 6.4748618	11.5828286 11.5816317 11.5804315 11.5792412 11.5780478 11.5768640	15 30 16 0 16 30	6.5684613 6.5718064 6.5751376 6.5784659	11.5482057 11.5471013 11.5459940 11.5448952 11.542700
33445	0 30 0 30 0	6.4855930 6.4891551 6.4927012	11.5756770 11.5844998 11.5733195 11.5721486 11.5709745	18 30 19 0	6.5883899 6.5916850 6.5949665	11.5416044 11.540516 11.539426 11.538334 11.537259
56677	30 30 0 30	6.5032950 6.5068034 6.5103087	11.5698101 11.5686426 11.5674844 11.5663231 11.5651712	21 0 21 30 22 0	6.6047731 6.6080222 6.6112687	11.536182 11.535103 11.534031 11.532957 11.531891
8 9 9 10	30 0 30 0	6.5207564 6.5242247 6.5276770	11.5640162 11.5628704 11.5617215 11.5605819 11.5594392	23 30 24 0 24 30	6 6209502 6.6241651 6.6273670	11.530823 11.529762 11.528699 11.527643
10 11 11 12 12		6.5379955 6.5414129 6.5448273	11.5583054 11.5571687 11.5560411 11.5549105 11.5537886	26 30 26 30	6.6337529 6.6369368 6.6401080 6.6432767	11.525535 311.524482 11.523437 11.522389 311.521349
13 13 14 14		6.5550063 6 5583858 6.5617510	11.5526639 311.5515479 311.5504290 11.5493188 311.5482057	28 30 29 0 29 30	6.6495864 6.6527274 6.6568659	11 520306 11 519271 11 517234 11 516204

	3 DEGREES.							
Seconds Minutes	x3—6x=20	bx—x³—2c	Seconds Minutes	¢³—bx=2€	1 x →x3 == 2			
30 30 31 30 31 30 32 30	6.6621160 6.6652274 6.6683365 6.6714334 6.6745280 6.6776103	11.5130986	45 30 46 0 46 30	6.7553945 6.7582989 6.7611928 6.7640847	11.486370 11.485414 11.484455 11.483503 11.482549 11.481601			
33 C 33 30 34 C 34 30 35 0	6.6898787	11.5100427 11.5090321 11.5080191 11.5070133	49 0	6.7727142 6.7755810 6.7784375	11.4806518 11.479708 11.4787626 11.477823 11.4768816			
35 30 36 6 36 30 37 6 37 30	6.6990082 6.702034 6.705058	11 5050040 11 5040006 11 5030041 11 5020053	51 0 51 30	6.7869785 6.7898107 6.7926408	11.475946 11.4750086 11.474077 11.473144 11.472217			
38 30 39 0 39 30 40 0	6.714079	511.5000194 311.4990321 711.4980425 911.4970599	53 30 54 0	6.8010872 6.8038933 6.8066897	11.471287 11.470364 11.469439 11.468526 11.467599			
41 30 42 0	6.728985 6.731943 6.734900	5 11 4950968 2 11 4941164 7 11 493142 1 11 492166 4 11 491197	56 c 56 30 57 0	6.8150514 6.8178244 6.8205955	11.466684 11.465767 11.464855 11.463942 11.463934			
43 3 44 3	0 16.743721 0 6.746651 0 6.749570	6 11.490225 0 11 489260 2 11.4882936 6 11.4873336 9 11.486370	58 30 59 0 59 30	6.8316145 6.8343531	11.462125 11.461222 11.460316 11.459416 11.458515			

Seconds	x³—bx=2	(bx; -x³=2	Seconds Minutes	x3—bx=2c	bx—x³==2
0 0 0 30 1 0 1 30 2 0 2 30	6.839817 6.842542 6.845259 6.847973	11.4585151 311.4576191 911.456721 211.4558290 711.4549340	15 30 16 0 16 30 17 0	6.9191959 6.9217637 6.9243233 6.9268813	11,4323711 11,431528 11,430684 11,429844 11,429003 11,428167
3 0 3 30 4 0 4 30 5 0	6.856076 6.858769 6.861452	411.4531566 611.4522712 111.4513847 411.4505030 911.449620	19 30	6.9345192 6.9370576 6.9395879	11.4273300 11.426497 11.425662 11.424833 11.424002
5 30 6 0 6 30 7 0 7 30	6.869477	5 11,448743 4 11,4478638 3 11,4469899 5 11,446114 7 11,445243	21 0	6.9471569	11.4231760 11.422348 11.4215250 11.4207004 11.419880
8 30 9 0 9 30	6.882741 6.885386 6.888010	3 11 4443719 1 11 443505 1 11 442636 5 11 441773 1 11 440908	23 30 24 0 24 30	6.9596728 6.9621539 6.9646471	11.4190596 11.4182423 11.4174130 11.4166103
10 30 11 0 11 30 12 0 12 30	6.895877 6 898486 6.901094	11.4400486 211.4391872 911.4383300 911.4374720 111.4366200	26 0 26 30 27 0	0.9720755 0.9745405 6.9770040	11.4149848 11.4141727 11.4133653 11.4125564 11.4117520
13 30 13 30 14 0 14 30	6.908881 6.911469 6.914048	311.4357655 11.4349161 11.4340650 11.4332180	28 30 29 0 29 30	6.9819142 6.9843610 6.9868063 6.9892443 6.9916809	11.4101450 11.4093423 11.4085430

Seconds Minutes	x3—bx=2c	bn—x³=2c	Seconds Minutes	x³—bx—2c	bx—x³=20
30 0 30 30 31 0 31 30 32 0 32 30	6.9941099 6.996 5 375 6.9989577 7.0013766	11.4077441 11.4069489 11.4061523 11.4053599 11.4045662 11.4037769	45 30 46 0 46 30 47 0	7.0650451 7.0673475 7.0696432 7.0719376	11.3844715 11.3837187 11.3829647 11.3822146 11.3814632
33 30 33 30 34 0 34 30 35 0	7.0086011 7.0110026 7.0133969	11.4029862 11.4021997 11.4014118 11.4006283 11.3998433	48 30 49 0 49 30	7 0787921 7.0810709 7.0833433	11.3799669 11 3792221 11.3784761 11.3777339 11.3769904
35 30 36 0 36 30 37 0	7.0205597 7.0229369 7.0253128	11.3990628 11.3982809 11.3975031 11.3967240 11.3959491	51 0 51 30 52 0	7.0901424 7.0923996 7.0946555	11.3762509 11.3755100 11.3747730 11.3740347 11.3733003
38 0 38 30 39 0 39 30 40 0	7.0324094 7.0347686 7.0371207	11.3951729 11 3944008 11.3936274 11.3928581 11 3920875	53 30 54 0 54 30	7.1013950 7.1036358 7.1058703	11.3725647 11.3718328 11.3710998 11.3703703 11.3696397
40 30 41 0 41 30 42 0 42 30	7.0441580 7.0464938 7.0488282	11.3913211 11.3905532 11.3897896 11.3890246 11.3882636	56 0 56 30	7.1125566 7.1147764 7.1169950	11.3689129 11.3681850 11.3674606 11.3667350 11.3660132
43 30 43 30 44 6 44 30 45 6	7.0558016	11.3875013 11.3867432 11.3859838 11.3852283 11.3844715	58 30 59 0 59 30	7.1236237 7.1258277 7.1280256	11.3652901 11.3645707 11.3638501 11.3631332 11.3624152

	5	DEG	RE	ES.	
Seconds	x³ — bx =2₁	×_*=24	Seconds Minutes	r³ —b x ≒20	′2 α-α °=2ι
0 C 0 3C 1 C 1 3C 2 30	7.1324131 7.1346027 7.1367864 7.1389686	11.3624152 11.3617007 11.3609851 11.3602730 11.3595597 11.3588501	15 30 16 0 16 30	7.1986525 7.2007348 7.2028162	11.3414579 11.3407781 11.3400973 11.3394196 11.3387410
3 0 3 30 4 0 4 30 5 c	7.1454904 7.1476588 7.1498214	11.3581393 11.3574320 11.3567236 11.3560186 11.355312	18 30 19 0	7.2090364	311.3373892 11 3367160 11.336041 211.3353700 11.334698
5 30 6 6 7 0 7 30	7.1562931 7.1584418 7.160589	11.3546100 11.353906 11.353206 11.352595 11.351807	3 2 1 C 2 2 1 3 C	7.219343	3 11.334029 2 11.333359 11.332692 7 11.332024 11.331360
8 30 9 30 9 30	7.167007	111-351108 311-350412 311-349715 711-349022 911-348328	5 23 30 7 24 0 5 24 30	7.229569	5 11.330694 8 11.330032 2 11.329368 3 11.328707 5 11 328046
10 30 11 0 11 30 12 0 12 30	7.177639 7.179754 7.181868	6 111347637 1 11.346945 2 11.346256 1 11.345566 5 11.344886	1 26 4 26 3 5 27	7.239721 7.241741 7.243760	6 11.327388 7 11.326728 8 11.326072 8 11.325414 8 11.324760
13 30 14 0 14 30	7.188185 7.190286 7.192381	8 11.344192 7 11.343508 5 11.342822 7 11.342140 6 11.341457	328 3 929 929 3	7.249795 7.251802 7.253804	8 11 324105 8 11 323453 8 11.322800 c 11 322149 111.321498

	5 DEGREES.							
Seconds Minutes	x³—b x =2c	5 x - x = 2¢	Minutes	׳—b x =2c	√x—x³=2€			
0 0 0 30 1 0 1 30 2 0	7 2578023 7.2597975 7.2617877 7.2637770	11.3214985 11.3208503 11.3202011 11.3195549 11.3189078 11.3182636	45 30 46 0 46 30	7-3163875 7-3182983 7-3202046 7-3221101	11.3024494 11.3018301 11.3012099 11.3005924 11.2999741 11.2993584			
33 30 34 0 34 30 35 0	7.2697238 7.2717014 7.2736744	11.3176183 11.3169762 11.3163330 11.3156928 11.3150515	48 30 49 0 49 30	7.3278070 7.3297018 7.3315923	11.2987418 11.2981280 11.2975134 11.2969013 11.2962883			
35 30 36 0 36 30 37 0 37 30	7.2795797 7.2815412 7.2835917	11.3144133 11.3137741 11.3131378 11.3125005 11.3118661	51 0 51 30 52 0	7·3372514 7·3391314 7·3410105	11.2956781 11.2950670 11.2944586 11.2938493 11.2932427			
38 0 38 30 39 0 39 30 40 0	7.2893625 7.2913117 7.2932564	11.3112308 11.3105983 11.3099649 11.3093344 11.3087028	53 30 54 0 54 30	7.3466287 7.3484975 7.3503621	11 2926352 11.2920303 11.2914247 11.2908215 11.2902174			
40 30 41 0 41 30 42 0 42 30	7.2990771 7.3010107 7.3029433	11.3080742 11.3074447 11.3068179 11.3061901 11.3055653	56 0 56 30 57 0	7·3559438 7·3577980 7·3596515	11.2896160 11.2890138 11.2884142 11.2878139			
13 30 14 0 14 30 15 0	7.3087209 7.3106425 7.3125596	11,3049395 11.3043165 11.3036925 11.3030714 11.3024494	58 30 59 0	7.3651937 7.3670371 7.3688764	11.2856170 11.2860200 11.2854230 11.2848204 11.2842343			

Seconds Minutes	x ³—b x =2	c bx—x3=20	Scconds Minutes	x:-bx=20	bx-x ³ =2
0 0 0 30 1 0 1 30 2 0 2 30	7.372549 7.3743826 7.3762124 7.3780410	11.2842341 311.2836413 11.2830477 11.2824566 11.2818646 11.2812753	15 30 16 0 16 30 17 0	7.4264881 7.4282506 7.4300094 7.4317675	11.266785 11.266217 11.265648 11.265081 11.2645130
2 30 3 0 3 30 4 0 4 30 5 0	7.3816892 7.3835089 7.3853279 7.3853279 7.3871427 7.3889567	11.2806852 11.2800973 11.2795087	18 0 18 30 19 0	7.4352752 7.4370250 7.4387741	11.2639487 11.2633828 11.2628190 11.2622545 11.2616924 11.2611296
5 30 6 0 6 30 7 0 7 30	7-3907667 7-3925759 7-3943811 7-3961855 7-3979861	11.2777515 11.2771663 11.2765835 11.2759999 11.2754187	21 30	7·4440048 7·4457449 7·4474814 7·4492172 7·4509493	11.2605690 11.2600077 11.2594486
9 0	7 4015816 7-4033765 7-4051675	11.27.48367 11.2742572 11.2736769 11.2730991 11.2725205	3 30 4 0 4 30	7.4526807 7.4544085 7.4561355 7.4578588 7.4595814	1.2572167
1 30	7.4105296 7.4123113 7.4140922	11.2719442 11.2713672 11.2707925 11.2702170 11.2696439	6 0 6 30 7 0	7.4613004 1 7.4630188 1 7.4647336 1 7.4664477 1 7.4681581 1	1.2544432 1.2538916 1.2533303
3 30 4 0 4 30	7.4194181 7.4211898 7.4229577	1.2690700 2 1.2684985 2 1.2679262 2 1.2673563 2 1.2667856 3	8 o 8 30 9 o 9 30	7.4698679 1 7.4715742 1 7.4732798 1 7.47498 18 1 7.4766831 1	1.2522383 1.2546896 1.3511402 1.2505030

Seconds Minutes	x³bx=2c	b x-x 3=2.c	Seconds Minutes	x³—bx=2c	bx—x³=2c
30 0 30 30 31 0 31 30 32 0	7 4783809 7 4800781 7 4817716 7 4834645	11.2500451 11.2494993 11.2489529 11.2484086 11.2478637	45 30 46 0 46 30 47 0	7.5300213 7.5316547 7.5332874	11.2334352 11.2329097 11.2323863 11.2318622
33 30 34 0 34 30 35 0	7.4885280 7.4902126 7.4918938	11.2467772 11.2462358 11.2456938 11.2451538 11.2446131	49 30	7.5381714 7.5397964 7.541418 7.543039	11.2308174 11.2302966 11.2297752 11.2292557 11.2287356
35 30 36 0 36 30 37 0 37 30	7.4969270 7.4986000 7.500273	11.2440744 11.2435351 11.2429976 11.242460	51 30 152 0	7.546275 7.547889 7.549502	7 11.2282175 111.2276987 3 11.2271819 9 11.2266645 4 11,2261496
38 30 38 30 39 30 40 0	7.505275 7.506939 7.508600	11.241388 411.240853 711.240318 511.239785 711.239251	6 53 3 5 54 5 54 3	7-555936	111.225118 2 11.224603 3 11.2240900
40 30 41 0 41 30 42 0 42 30	7.513574 7.515226 7.516879	7 11.238720 0 11.238188 6 11.237657 2 11.237126 2 11.236598	056 756 3 857	0 7.562339 0 7.563935 0 7.565530	1 11.223065 8 11.222553 5 11.222043 5 11.221532 4 11.221023
43 30 44 30	7.521821 7.523466 7.525107	5 11.236068 6 11.235541 90 11.235012 11 11.234486	0 58 3 8 59 7 59 3	0 7.570302 0 7.571889	8 11.220513 0 11.220005 11.219497 5 11 218990 111.218483

9 DEGREES. Minutes 7 5750587 11.2184885 15 7.576639611.217978215 7.578220111.217472516 0 7.6217420 11.2035741 Ö 30 7.6232700 11.2030869 30 7.624799311.2025993 7.626324811.2021134 7.627849711.2016269 30 7.579797611.2169684 7.581374511.2164637 30 7.582948411.2159610 7.629371811.2011422 7.584521611.215457618 7.586992911.214956918 7.6308934 11.2006570 30 7.632412311.2001733 7.633930711.1996891 7.635446311.1992067 7.635961311.1987237 30 7.5876618 11.214452810 о 30 30 7.5892285 11.213953510 7.5907947 11.2134527 20 7.592358011.212953620 7.6384736 11.1982424 7.6399853 11.1977603 7.6414944 11.1972864 7.6430029 11.1967997 7.593920711.212453921 7.595480411.211956021 6 30 30 7.5970396 11.2114576 22 7.598595811.210961022 11.196320 7.6445085 0 7.646013711.1958413 30 7.647516211.1953634 0 7.649018111.1948849 600151411.210463823 7.600904211.210768423 30 30 7.650517411.1944082 9 30 7.604805711.2089781124 7.6063545 11 208483325 3c 7.607900311.207990325 0 7.609445611.207496826 7.6535122 11.1934553 7.6550076 11.1929791 7.6565007 11.1925045 7.6109881 11.2070049 26 I 30 30 7.6125300 11.2065124 7.657993111.1920295 7 6140690 11.2060218 2 12 30 30 11.191556 7.6594827

7.615607411.205530628 7.617243011.204941298

7.618678611.204551229

7.621742111.203574130

3 30

30

7.6609716 11.1910823 7.6624584 11.1906100

7.6639444 TT.1901372 30 7.6654278 LT.1896666

0 7.666910-11.1891943

Seconds	bx=2ck	vx—x³=2c	Seconds Minutes	x3— bx=2c	bx-x3=2c
0 *0	7.6669107	11.1891943	45 0		11.1753101
0 30	7.6683909	11.1887241	45 30		11.1748560
1 0	7.6698707	11.1882535	46 0		11.1744015
	7.0713477	11 1877845	46 30	7.7149074	11.1739484
32 30	7.6742082	11.1873151	47 30	7.7178277	11.1730427
-	THE REPORT OF THE PARTY.	SECURE STREET, SECURE STREET, SECURE			
33 0	7.6757717	11.1863789	48 0	100	11.1725902
33 39	7.6772420	11,1859120	48 30	7.720682	11.1721391
34 0	7.0787131	11.1854447		7.7221000	11.1716876
34 39 35 0	7.6816487	11.1849789	49 30	7.724052	11.1712375
33 4		8-10-00	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A STREET, STRE
35 30	7.6831130	11.184048	50 30	7.726374	11.1703380
36 d	7.6845772	11.183582	551	7-727794	111.169888
36 30	7.0000300	11.183119	351 3	7.729211	611.169440 611.168991
37 Q	7.688068	11.182655	752 3	7.730020	211.168544
	#: 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OF THE REAL PROPERTY.	08803	THE WILLY ASSESSED.	
38 o		11.181729		1 06-	411.168097
38 30	7.691872	11.181268	353 3	7.734009	111.167651
39 0	7.093327	11.180806	454	7-737680	511.167204 411.166759
39 39	7.606733	211.180346 311.179885	054 3	0 7.739097	911.166314
40 0	1-SEKGERYN	e transfer of the	HOLE BELLEVIA		
40 30	7-697681	911 179425	7 55 3	0 7.740504	111.165870
4100	7.699131	111.178965	950	0 7.741909	811.165425
41 36	7.700577	611.178507	050 3	0 7.743313	111.164982
42 6	7.702023	411.177591	657	0 7.744710	611.164097
142 39	-	See The Property of the Principles	Eds Roll Co.		
43	7.704910	611.17713	38 58	0 7.74751	7 11.163654
43 3	7.706351	311 17667	7750	30 7.74 912	18 11.163213 18 11.162772
IN COLUMN	7.707791	411.17622	8 50	7.75031	08 11.162332
44.3	7.710666	2 11.17576 5 11.175310	1.50	0 7.75170	1411.161891

*

Minutes -	3r3_	-b x ==2	c bx-	-x³=2	Minutes	Seconds	x3	bx==2	cbx-	-x³=
0 0 0 30 1 0 1 30 2 0	7.7	53101. 54493 55885 57275 58664	7 11.1	61452; 61012; 60574	15 16 16	30 0 30	7-7	94299 95651 97004 98353	911.1	48486 48056 47636
2 30	7.7	61437	111.1	59698; 592610	17	30	7.80	99703	1	
3 30 4 0 4 30 5 0	7.7	62821 64205 65586 66967	311.1	583881 579 52 7	19	30	7.80 7.80 7.80	3742 5086 6428 7770	11.1	45941 45519 45097
5 30 6 0 6 30	7.7	683464 697247 711007 724763	11.1	566479	2I	30	7.81	91104 04497 17869 31236	11.12	43834 43414
7 30 8 0 8 30	7.7	738498 752228 765935	11.19	53482 49152 44837	22 23 23	30	7.81	44583	11.14	2576
9 0	7.7	793318	11.15	36212 31902	24 25	30	7.81 7.82	84565 97862 11155	11.14 11.14	09040
0 30 1 0 1 30 2 0	7-78	320648 334298 347927 361551	11.15	19019 14727	26 27	30	7.82 7.82 7.82	37696 50944 64188	11.13	96540 92388 88232
3 30	7 78 7·79	88751 62327 15900	11.15	06167	28	20	7.820	77411 90630 93828	11.13	79942
4 30	7.79	29449 42994	11.14	93365	29 :	30	7.831 7.833	7022 30196 3366	11.13	71670

Seconds Minutes	₹3—bx=20	bx-x3=20	Seconds Minutes	x³—bx=2c	bx-x3=2
30 0	7.8343366	11.1363414	45 a	7.8732827	11.124161
30 30 31 0	7.8350517	11.1359297	45 30	7.8745024	11.1237628
	7.8382789	11.1355175	46 30	7.8771103	11.1233634
32 0	7.8395911	11.1346055	47 0	7.8783964	11.1225664
32 30	7.8409012	11.1342854	47 30	7.8796717	11.1221689
33 0		11.1338750		7 8809466	11.1217710
33 30		11.1334659	48 30	7.8822195	11.1213743
34 0	7.8448263	11.1330563	49 a		11.1209773
34 30 35 0		11.1326480 11.1322394			11.1205813
35 30	A	11.1318319	200	7.8873019	
6 0	7.8500424	11.1314240	51 O	7.8885700	
6 30	7.8513430	11.1310174	51 30	7.8898362	11.1190002
7 0		11.1306105		7.8911020	11.1186056
7 30	7.0539415	11.1302047	52 30	7.8923661	11.1102121
8 0	7.8552394	11.1297986	53 0	7.8936298	
8 30	7.8565354	11.1293938	53 30	7.8948917	1.1174255
9 0	7.8578309	11.1289885	54 0	7.8961532	
9 30	7.8604178	11.1285844	54 30 55 0	7.89741281	1.1162484
0 30	A CONTRACTOR OF THE PARTY OF TH	11.1277766	No. of the last of	7.8999294	The second second
1 0		11.1273729		7.9011865	1.1154659
1 30		11.1269705		7.9024418	
2 0	7.8655777	11.1265677	57 0	7.9036967	1.1146847
2 30	7 8668643	11.1261661	57 30	7-9949497	1.1142951
3 0		11.1257642	58 0	7.9062025	1.1139053
3 30	7.8694349	11.1253633	58 30	7.9074533	1.1135105
4 0	7.8707190	11.1249622	59 0	7.90870381	1.1131274
4 30	7.8732827	1.1245622		7.90995261	1.112/394

9 DEGREES.
$ \frac{x}{\sin x} = \frac{x}{x} - \frac{x^2}{2c} = \frac{2c}{2c} = \frac{x^2 - bx}{2c} = \frac{2c}{2c} $
0 0 7.9112010 11:1123510 15 0 7.9481505 11.1008893 0 30 7.9124476 11:111963815 30 7.9493657 11.1005133 1 0 7.9136939 11:1115763 16 0 7.9505807 11.1001371 1 36 7.9149384 11:1111898 16 30 7.9517939 11.0097619 2 0 7.9161825 11 1108029 17 0 7.9530068 11.0093864 2 30 7.9174247 11:1104173 17 30 7.9542181 11.0090119
3 0 7,9186666 11.1100314.18 0 7.9554291 11.0986371 3 30 7,9199068 11.1096464.18 30 7.9566382 11.0982634 4 0 7,9211467 11.1092611 19 0 7.9578470 11.0978894 4 30 7,9223848 11.1088770 19 30 7.9590542 11.0975 164 5 0 7,9236225 11.1084925 20 0 7.9602611 11.0971431
5 30 7,9248585 11.1081091 20 30 7,9614664 11.0967708 7,9260941 11.1077253 21 0 7,962671311 0963981 6 30 7,9273279 11.1074427 21 30 7,9638744 11.0960266 7,9285614 11.1069598 22 0 7,9650773 11.0956549 7,9297931 11.1065779 22 30 7,9662786 11.0952840
8 0 7.9310245 11.1051957 23 0 7.9674795 11.0949127 7.9636788 11.0945426 9 0 7.933483 11.1054331 24 0 7.9698778 11.0941722 9 30 7.934711 11.1050528 24 30 7.9710750 11.0938028 10 0 7.9359382 11.1046722 25 0 7.9722720 11.0934332
10 30 7,9371638 11.104292625 30 7.973467311.0930645 11 0 7,9383890 11.1039126 26 0 7.974662311.0926955 11 30 7,939612411.1035336 26 30 7.9758557 11.0923275 12 0 7.940835611.1031544 27 0 7.9770488 11 0919592 12 30 7,9420569 11.1027763 27 30 7.978240311.0915919
13 0 7.9432779 11.1023979 28 0 7.979431411 0912242 13 30 7.944497311.1020205 28 30 7.9806209 11 0908577 14 0 7.945716311.1016427 29 0 7.981810111.0904900 14 30 7.946933611.1012662 29 30 7.982997611 0901250 15 0 7.948150511.1008893 30 0 7.984184911.0897580

9 DEGREES.								
Seconds	$x^3 - bx = 2c$	b x — x ³==2¢	Seconds Minutes	x³—bx=20	bxx³==2c			
30 0 30 30 31 0 31 30	7.9853705	11.0897586 11.0893937 11.0890282 11.088663	45 30 246 0	8.020511	11.0789435 11.0785885 11.0782333 11.0782333			
32 0 32 30	7.9889232	11.088298	47 30	8.023980	111.0775245			
33 0 33 30 34 0 34 30	7.9924664	11.0875700 11.087207 11.086844 11.086482	848 30 549 0	8.028592	11.0764640 11.0761108 11.0757584			
35 36 36 6	7.9960018	11.086119	4 50 0 7 50 30	8.032041	211.0750542			
36 30 37 30 37 30	7.9995270 8.0007010	911.085034 911.084673 311.084313	751 30	8.034336 8.035483	11.0743512 111.0739999			
38 38 39 39 39 3	0 81004216	4 11.083952 9 11.083592 2 11.083232 8 11.082873	753 30	8.038916	11.0725992			
40 3	0 8.007724	011.082514	5 55 6	8.043481	17 11.0715525			
41 3	0 8.010057 0 8.011222 0 8.012387 0 8.013550	011.081440	00 56 30 22 57	8.045750	111.0712039 1211.0708562 6911.0705081			
43	0 8.014713	11,08036	79 58 6	8.049160 8.05030 8.05143	11.0698136 37 11.069467			
44	0 8.018195 0 8.01935	8 11.07929	84 59 3	0 8.05257	35 11.068774			

Seconds Minutes	$x^3-bx=2c$	b x +x³=2c	Scconds Minutes	$x^{2}-bx=2c^{2}bx+x^{3}=2$
0 0 0 30 1 0 1 30 2 0 2 30	8.0548345 8.0559653 8.0570947 8.0582238 8.0593514	11.0684283 11.0680831 11.0677377 11.0673931 11.0670482 11.0667042	15 30 16 30 17 0 17 30	8.0872761 11.058199 8.0883820 11.057863 8 0894876 11.057527 8 0905919 11.057191 8.0916959 11.056856 8 0927985 11.056521
3 ° 3 ° 4 ° 4 3 ° 5 ° °	8.0616047	11.0663600 11.0660167 11.0656732 11.0653304 11.0649875	10 0	8.0961026 11.055518 8.0972020 11.055184 8.0983011 11.054851
5 30 6 0 6 30 7 0 7 30	8.0672225	11.0639617 11.0636200	21 0 21 30 22 0	
8 o 8 30 9 o 9 30 10 o	8.0728203 8.0739375	11 0622575	23 30 24 0 24 30	8.1048775 11.052856 8.1059705 11.052525 8.1070632 11.052194 8.1081546 11 051863 8.1092458 11.051532
10 30 11 0 11 30 12 0 12 30	8.0772831 8.0783970 8.0795095	11.0612391 11.0608998 11.0605615	25 30 26 0 26 30 27 0	8.1103356 11.051202 8 1114252 11.050872 8.1125134 11.050543 8.1136014 11.050213 8.1146881 11.049884
13 30	8.0828431 8.0839523 8.0850613 8.0861688	11.0595471 11.0592099 11.0588725 11.0585360 11.0581993	28 0 28 30 29 0 29 30	8.1157745 11.049555 8.1168595 11.049227 8.1179443 11.048899 8.1190279 11.048571

21

Seconds Minutes	x³—bx=2	c b x-x==2 c	Minutes	Seconds	x³—l	x=20	bx—	-x³==2c
30 C		211.0482436		0	8.15	22459	11.0	385491
30 30	8.121193	211.0479166	45	30	8.15	33052	11.0	382306
31 0	8 122274	911.0475893	40	0	8.15	43642	11.0	379118
31 30	8 123355	411.0472628	40	30				375939
32 0	8 125514	711.0469361	47	30		64794 75357	\$100 E-25 FeB 2555	372758 369583
32 30	0.123314	311.0400103	1	ۍ 	on the	1/333/		309303
33 0	8.126593	011.0462842	48	0	8.15	85918	11.0	366406
33 30	8.127670	611.0459589	48	30	8.19	96466	11.0	363238
34 C		611 0456332	49	0	8.16	07012	11.0	360068
34 30		411.0453086			8.16	77546	11.0	356904
35 9	I X TONON	911.0449837	50	C	8.10	28078	11.0	353738
affact	8.121072	111.0446595	50	30	8.10	28506	11.0	350580
35 3°	1 8 T2204F	2 11.0443352		Č	8.10	4911	11.0	34742
36 30	10-	911.044011		30	8.1	559617	11.0	34426
37	1 9	5 11.043687	52		8.10	070110	II.C	34111
37 39	106-6-	7 11.043364	52	30	8.1	680610	11.0	33796
40.000		******			0		1	20.01
DEPOSIT NAME OF THE PARTY OF TH		7 11.043041				091091	177	33481
多年图像图3000		911.0427196			0.1	70157	11.0	33167
39 30		011.042074			8 7	72250	211.0	32539
District Contracts	8.141610	011.041752	155	3	8.1	72206	111.0	32225
2000				BIN CO	-	BACCHE STORES	e Same	St. St. Constitution of
40 3	8.14267	7 11.041431	55	30	8.1	74341	111.0	31912
Andrew Street, Service	0 8.143/43	111.041109			8.1	75305	911.0	31599
41 3	0 8 144000	3 11.040788	/[50	3	9.1	70429	211.0	31287
42 3	0 8.145873	111.040147	(2)		8.1	78514		30974
STATE STATE OF THE PARTY OF THE	., , , ,			9.3000	DI PRIMA	AND AND		
\$45,400,000	0 8 148000	6 11.039827	0 58		8.1	79555	7 11.0	30350
3630405500000	0 8.149062	8 11 039507	4 58	3	o 8.1	80596	III.	30038
And the Control of	8.150124	7 11.039187	5 59		0 8/1	81030	3 11.0	29727
	0 8.151185	411.038868	4 59	3	8.1	02075	3110	29416
45	0 8.15224	59/11.038549	100		0 8.1	03714	411.0	29105

ILDEGREES.

Seconds	x3-bx=2(bx+x3=	ि है	x = - bx = 2 c px -	/-·
0 30		15 8	1 4734/91 0	19900
I 0		13 3	CONTRACTOR OF THE PARTY OF THE PARTY OF	19598
1 30	8.180825311.02817	HI ROAD	1	18993
2 0	8.187851311.02786	LEBEORE	十分 マイガン・マット・	18691
2 30	8.1888960 11.02755	17 30	The second secon	18389
3 0		54 18 o	0	THE PERSON
3 30	8.190904011.02693	18 30	8.2216542 11.0	1778
4 30	STATE STATE STATE STATE OF THE	791000	8.2226670 11.0	1748
5 0		7 20 0	8.2236786 11.0	17183
5757	BUT HOT DOM IT 6 13 11	TOUR.	Grand I at	
5 30	8.1950916 11.02570	30 20 30	8.2257003 11.0	10582
6 ⊙ 6 30		79 27 00	8222710511	1508
7 0	8.198180411.02478	A 22 0	8.2287284 11.0	1568
7 39	8.198180411.02478 8.199208111.02447	37 22 30	82297361110	1538
8 0	「日本学術の関係のでは、日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日		8.2307436 11.0	Real measurements and the second second
8 30	8.2012623 11.02386	23 30	8.2317500 11.0	1478
9 0	8.2022886 11.02355	124 - 0	8,2327561111.0	14480
9 39	8 2033137 11.02324	7 24 30	8.233761911.0	1419
o q	10.00 5	A SHEET	012347002	1304
0 30	8.2053623 11.02263	77 25 30	8.2357699 11.0	13595
d q	8.2063859 11.02233	2326 0	8,2367734 11.0	13297
1 30	1 0 and an ITT ADTES	28 27 0	8.2377760 11.0 8.2387787 11.0	1270
2 20	8 200451511,02141	87 27 30	8,2397794 11.0	12407
COUNTR	Parallel III COTTE	MATA	8.2407804 11.0	1000
13 0	8.2114920 11,02081	28 30	The second secon	
4 00	8.2125115 11,02050	71 29 C	8.2427801 1.0	11518
14 70	8.213520811.02020	4 29 39	8.2437787 11.0	1122
t5 C	8.214547911.01990	0,130 0	8.244777 L.C	10926

II DEGREES.

Seconds Minutes	x*—bx=20	bx-x³=2c	Seconds Minutes	x³— bx=2c	bx-x³=20
30 0 30 30 31 0 31 30 32 0 32 30	8.2457745 8.2467716 8.2477677 8.2487635	11.0109267 11.0104317 11.0103364 11.0100419 11.0097471 11.0094531	45 30 46 0 46 30 47 0	8.2754085 8.2763869 8.2773642 8.2783413	11.0021739 11.0018861 11.0015981 11.0013108 11.0010233 11.0007363
33 30 33 30 34 0 34 30 35 0	8.2517464 8.2527398 8.2537321	11.0091588 11.0088652 11.0085714 11.0082783 11.0079849	48 30 49 0 49 30	8.2812685 8.2822433 8.2832170	11.0004492 11.0001627 10.9998761 10.9995902 10.9993041
35 30 36 0 36 30 37 0 37 30	8.2567059 8.2576956 8.2586851	i1.0076923 11.0073995 11.0071074 11.0068151 11.0065234	51 0 51 30 52 0	8.2861354 8.2871067 8.2880779	10.9990186 10.9987330 10.9983479 10.9981627 10.9978782
38 30 38 30 39 30 40 0	8.2616492 8.2626362 8.2636222	11.0062316 11.0059404 11.0056490 11.0053584 11.0050676	53 30 54 0 54 30	8.2909869 8.2919557 8.2929235	10.9975935 10.9973093 10.9970249 10.9967413 10.9964575
40 30 41 0 41 30 42 0 42 30	8.2665773 8.2675608 8.2685441	11.0047773 11.0044869 11.0041972 11.003678	56 30 57 °	8.2948576 8.2958239 8.2967893 8.2977546	10:9961744 10:9958911 10:9956083 10:9953254 10:9950432
43 30 44 30 44 30 45 0	8.2705085 8.2714895 8.2724704 8.2734502	11.0033285 11.0030397 11.0027508 11.0024624 11.0021739	58 0 58 30 59 0 59 30	8.3006458 8.3016086 8.3025705	10.9947607 10.9944790 10.9941970 10.9939157 10.9936341

Seconds	r³—b w ==21	bx-x=2c	Seconds Minutes	x ³ —bx=20	7x-*3=21
0 30 1 0 2 30	8.3044928 8.3054534 8.3054129 8.305372	10.9936341 10.9933532 10.9930721 10.9927917 10.9925111	15 30 16 0 16 30	8.3330524 8.3339959 8.3349383 8.2358806	10.9852993 10.9850250 10.9847507 10.9844769 10.9842030 10.9839297
3 30	8.3112030 8.3112030	10.9919509 10.991671 10.991391 10.991112	18 30 19 30 420 6	8.3387034 8.339643 8.340582 8.341521	10.9836563 10.9833834 10.983110 10.9828376 10.982565
6 30	8 315024 8 315978 8 316931	10.990554 710.990275 410.98999 910.989719 510.989441	921 30 521 30	8-343397 8-344334	710.982293 910.982021 510.981749 310.981477 210.981206
8 3	81319788 81320739 0181320739	0 10 989163 5 15 988886 8 15 988609 15 15 98853 2 15 98855	5 23 3 0 24 2 24 3	0 8.348077 0 8.349012 0 8.349045	910.980935 610.980664 210.980393 810.980123 410.979853
1 to 3	0 & 32453\ 0 & 3254\$\ 0 & 32643\	95, 10.987778 86, 10.98750 86, 10.987426 15, 10.986950 14, 10.98667	2 26 3 2 26 3	0 8.352744 0 8.353675 0 8.35460	1910.979\$83 1410.979\$13 5910.979043 7310.978774 7710.978505
13 3 14 14 3	6 8 32 927 6 8 33 92 16 9 (8 133 116)	12 10.98639 39 10.98612 95 10.98584 43 10.98557 1910.98529	39 28 3 37 29 3 11 29 3	0 8.35739 0 8.35839 0 8.35925	79 10:978235 73 10:977967 66 10:977698 48 10:977480 2910:977162

Seconds Minutes	c³—b×=≥ç	b x-x 3=2c	beconds Winutes	ω³—b x=2 0	bxx=21
8 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8.3611109 8.3620373 8.3620624	10.9771621 10.9768937 10.9766265 10.9763592 10.9760918 10.9758249	45 30 46 0 46 30	8.3895994 8.3905101 8.3914205	10.9692157 10.9689542 10.9686926 10.9684315 10.9681701 10.9679095
33 30 34 0 34 30 35 0	8,3666635 8,3675874 8,3685104	10.9755578 10.9752913 10.9759246 10.9747586 10.9744924	48 30 49 0 49 30	8.3950563	10.9676486 10.9673884 10.9671279 10.9668681
35 30 36 6 36 30 37 0	8(3712770 8(3721978 8(3731185	10.9742268 10.9739610 10.9736958 10.9734305 10.9731657	51 30 52 0	8.3977777 8.3986839 8.3995895 8.4004948	10.9663487 10.9660891 10.9658301 10.9655708 10.9653121
38 0 38 30 39 0 39 30 40 0	8:3758768 8:3767954 8:3777132	10.9729008 10.9726364 10.9723718 10.9721078 10.9718436	53 30 54 0 54 30	8.4032072 8.4041106 8.4050130	10.9650533 10.9647950 10.9645366 10.9642788 10.9640209
40 30 41 0 41 30 42 0 42 30	8.3795475 8.3804641 8.3813797 8.3822952	10.9715801 10.9713165 10.9710533 10.9710533 10.9705273	55 30 56 0 56 30 57 0	8 4068168 8 4077182 8 4086188 8 4095191	10.9637634 10.9635058 10.9632488 10.9629915 10.9627349
43 0 43 30 44 0 44 30 45 0	8.3859381 8.3859516 8 3868641	10.9702644 10.9700021 10.9697396 10.9694777 10.9692157	58 30 59 0 59 30	8.4113181 8.4122166 8.4131150 8.4140126	10.9624781 10.9622218 10.9619654 10.9617096 10.9614536

13	D	E	0	D	D	D	C	
14	D	L	U	7.	L	Ŀ	N.	

Minutes	x3-bx=2	'x-x³=2(Seconds Minutes	x ?—b x =10	bx-x=20
0 0 0 30 1 0 1 30 2 0 2 30	8.4158065 8.4167029 8.4175986 8.4184941	10.9614536 10.9611981 10.9609425 10.9606874 10.9604321	15 30 16 0 16 30	8.4424851 8.4433671 8.4442484 8.4451296	10.9538697 10.9536201 10.9533703 10.9531210 10.9528716 10.9526228
3 30 4 6 4 30	8.4211768 8.4220704 8.4229631	10.9599228 10.9596684 10.9594140 10.9591601 10.9589061	19 30 19 30	8.4477695 8.4486488 8.4495273	10.9523738 10.9521253 10.9518768 10.9516287 10.9513804
6 3	8.4256389 8.4265297 8.4274203	10.9586526 10.9583989 10.9581459 10.9578927 10.9576339	21 30 22 0	8.4521607 8.4530374 8.4539139	10.9511327 10.9508847 10.9506374 10.9503899 10.9501430
9 3	8.4291998 8.4300887 8.4309774 8.4318653	10.9573870 10.9571347 10.9568822 10.9566303 10.9563782	23 30 24 - 0 24 30	8.4565399 8.4574146 8.4582886	10.9498959 10.9496493 10.9494026 10.9491564 10.9489100
11 3	8.4336399 8.434526 8.435412 8.436298	10.9561267 10.9558751 10.9556239 10.9553725 10.9551218	25 30 26 30 27 0	8.4609082 8.4617803 8.4626523	10.9486641 10.9484182 10.9481727 10.9479271 10.9476820
13 3 14 14 3	8 4389526 8 8 4398366 8 8 4407198	10.9548709 10.9546204 10.9543698 10.9541198	28 30 29 30	8.4652647 8.4661348 8.4670041	10.9474368 10.9471921 10.9469472 10.9467029

				10 mm				
	-	-	~	-	-	73		
12		H	1	V	H.	H		
1 4	u	14	U	11	L	-	N.	

nds	x³—bx=21	bx-x³=2c	Seconds Minutes	x³—b x =≥c	bx—x³=2c
30 0 30 30 31 0 31 30 32 0 32 30	8.4687418 8.4696102 8.4704777 8.4713451	10.9464585 10.9462144 10.9459702 10.9457267 10.9454831 10.9452398	45 30 46 0 46 30 47 0	8.4945944 8.4954495 8.4963039 8.4971582	10.9392143 10.9389758 10.9387371 10.9384989 10.9382606 10.9380229
33 0 33 30 34 0 34 30 35 0	8.4730784 8.4739441 8.4748097 8.4756746 8.4765394	10.9449964 10.9447535 10.9445105 10.9442680 10.9440254	48 30 49 0 49 30	8.4997178 8.5005704 8.5014222	10.9377851 10.9375476 10.9373100 10.9370730 10.9368359
35 30 36 0 36 30 37 0 37 30	8.4782673 8.4791304 8.4799934	10.9437832 10.9435409 10.9432992 10.9430574 10.9428160	51 30 51 30	8.5039758 8.5048259 8.5056759	10.9365991 10.9363622 10.9361259 10.9358895 10.9356534
38 0 38 30 39 0 39 30	8.4825790 8.4834402 8.4843007	10.942 5 745 10.9423334 10.9420922 10.9418515 10.9416107	53 30 54 0 54 30	8.5082228 8.509071 8.509018	10.9354172 310.9351816 10.9349459 10.934710
40 30 41 0 41 30 42 0 42 30	8.4868803 8.4877390 8.4885975	10.9413704 10.9411299 10.9408900 10.9406490	56 56 57	8.512459 8.513335 8.514151	10.934240; 610.934005; 510.933770; 210.933536; 310.933301
43 30	8.490313 8.491170 8.4920260 8.492883	10,9401707 10.9399319 10.939692 10.939453	58 58 59 59 359 3	0 8.516685 0 8.517529 0 8.518373	3 10.933067 6 10.932833 8 10.932599 2 10.932365 6 10.932132

Minutes	x 2 - b x = 2 c	x-x³=2c	Scconds Minutes	x:bx=2	bx-x3=2
0 30 30 30 30	8.5200591 8.5209015 8.5217433 8.5225851	10.9321322 10.9318991 10.9316659 10.9314329 10.9311999 10.9309674	15 30 16 0 16 30 17 0	8 5451516 8 5459816 8 5468116 8 5476411	10.925207 10.924979 10.924751 10.924523 10.924295
3300	8.5251069 8.5259469 8.5267862	10.9307348 10.9305027 10.9302705 10.9300386 10.9298067	18 30 19 0	8 5501268 8 5509547 8 5517820	10.923841 10.923614 10.923387 10.923160 10.922933
5 30 6 30 7 30	8.5284639 8.5293022 8.5301399 8.5309775 8.5818143	10.9295753 10.9293438 10.9291127 10.9288815 10.9286507	21 30 22 0	8-553 4357 8-5542620 8-5550878 8-5559134 8-5567384	10.922254
8 0 8 30 9 0 9 30	8.5334871 8.5343230 8.5351583	10.9284198 10.9281895 10.9279590 10.9277289 10.9274986	23 30 24 0 24 30	8.5583873 8.5592113	10.9215772 10.9213510 10.9211265 10.9206764
0 30 1 0 1 30 2 0	8.5376622 8.5384958	0.9272689 0.9270390 0.9268096 0.9265801	6 30	8.5616806 8.5625030 8.5633249 8.5641466 8.5649676	10,9204518 10,9202270 10,9200027 10,9197782 10,9195542
3 39 4 0 4 30	8.5418260 I 8.5426588 I	0.92612202 0.92589332 0.92566442 0.92543612	18 30 19 0	8.5657886 8.5666089 8.5674291 8.5682487 8.5690682	10.9191065 10.9188827 10.9186593

Seconds Minutes	$x^3-bx=2\epsilon$	b x—x³ =≥0	Seconds Minutes	x3-bx=20	bx—x ³ =20
30 30 31 30 31 30 32 0 32 30	8.5698869 8.5707054 8.5715235 8.5723414	10.9184358 10.9182129 10.9179898 10.9177671 10.9175442 10.9173219	45 30 46 0 46 30 47 0	8.5942789 8.5950864 8.5958932 8.5966999	10.9118128 10.9115947 10.9113764 10.9111586 10.9109407 10.9107233
33 30 34 30 35 50	8.5747923 8.5756086 8.5764247	10.9170994 10.9168775 10.9166554 10.9164337 10.9162119	48 30 49 0 49 30	8.5991172 8.5999225 8.6007271	10.9105058 10.9102886 10.9100713 10.9098545 10.9096376
35 30 36 0 36 30 37 0	8.5796840 8.5804981	10.9159905 10.9157690 10.9155480 10.9153269 10.9151062	51 0 51 30	8.6039426 8.6047457	10.9094210 10.9092042 10.9089880 10.9087717 10.9085559
38 30 39 0 39 30 40 0	8.5837504	10.9148854 10.9146649 10.9144444 10.9142244 10.9140042	53 3C	8 6063504 8.6071522 8.6079539 8.6087549	10.9083400 10.9081244 10.9079087 10.9076935 10.9074782
14 0	8.58618551 8.58699661 8.58780711 8.58861741 8.58942721	0.9137845 0.9135646 0.9133453	55 30 56 0 56 30	8 6103561 8.61115641 8.611956c1 8.61275551 8.6135544	0.9072631
3 0 3 30 4 0 4 30	8.5902370 1 8.5910460 1 8.5918549 1 8.5926631 1 8.5934712 1	0.91268745 0.91246865 0.91224975	8 0 8 30 9 0	8.6143532 I 8.6151514 I 8.6159495 I 8.6167470 I 8.6175444 I	0.9061900 0.9059760 0.9057619 0.9055482

			100	-	-	
1 .	n	F	C	R	H.	ES.
15	L	L	J	Tr	-	LI D.

Minutes	Seconds	x³—bx=20	bx—x³==2c	Minutes	Seconds	v³—bx=2c	bx-x³=20
0	0	8.6175444	10.9053344	15	c		10.8989971
0	30	8.6183411	10.9051211	15	30	8.6420863	10.898788
I	0	8.6191377	10.9049077	10	0		10.898579
I	30	8.6199338	10.9046946	10	30	8.6436584	10.8983710
2	0	8.0207298	10 9044814	17	0	8.644441	
2	30	8.0215251	10.9042687	17	30	8.6452291	10.897954
3	0		10.9040559		0	8.6460141	10.897746
3	30	8.6231150	10.9038434	18	30	8.6467985	10.897538
4	0	8.6239096	10.9036308	19	. 0	8.6475828	10.897330
4	30		10.9034188		30	8.6483665	10.897122
5	0	8.6254974	10.9032066	20	0	8.6491501	10.896915
5	30	8.6262907	10.9029947	20	30	8.6499331	10.896708
56	0	8.6270840	10.9027828	21	0	8.6507880	10.896572
6	30	8.6278765	10.9025713	21	30	8.6514984	10.896293
7	.0		10.9023597		0	8.6522808	10.896086
7	30	8.6294609	10.9021485	22	30	8.6530624	10.895880
8	. 0	8.6302527	10.9019371	23	0	8.6538440	10.895673
8	30		10.9017263		30	8.6546251	
9	. 0	8,6318349	10.9015153	24	0	8.6554060	
	30		10.9013048		30	8.6561864	10.895054
	- 0	8.6334158	10.9010942	25	0	8.6569667	10.894848
10	20	8.6342057	10.9008839	25	30	8.6577464	10.894643
11	30	8.6349954	10.9006734	26	0	8.6585260	10.894437
II	30	8 6357845	10.9004635	26	30	8.6593052	10.894231
12	0	8.6365735	10.9002535	27	0	8.6600842	10.894026
12	30	8.6373620	10.9000438	27	30	8.6608625	10.893821
12		8.6381504	10.8998340	28	C	8.6616408	10.803616
13 13	PONTNERWES	0100		28	30	8.6624186	10.893411
14	CONTRACTOR IN	0 6	A CONTRACTOR OF THE PROPERTY O		0	8.6631962	10.893206
14	100	01	0 /		30	8.6639733	10.893001
15		8.6412900	10.898997		0		10.892797

Seconds Minutes	x3—bx=2c	bx—x³=2c	Seconds Minutes	$x^3 - bx = 2c$	x-x3=20
30 0 30 30 31 0 31 30 32 0 32 30	8.6678547	10.8925930 10.8923887 10.8921847 10.8919807	45 30 46 0 46 30	8.6886742 8.6894411 8.6902072 8.6909733	10.8867313 10.8865314 10.8863315 10.8861320 10.8859325 10.8857332
33 0 33 30 34 0 34 30 35 0	8.6701794 8.6709538 8.6717276	10.8913700 10.8913700 10.8911666 10.8909636 10.8907605	48 30 49 0 49 30	8.6932696 8.6940344 8.6947988	10.8855338 10.8853350 10.8851360 10.8849374 10.8847386
35 30 36 0 36 30 37 0 37 30	8.6740477 8.6748203 8.6755927	10.8905578 10.8903549 10.8901525 10.8899499 10.8897477	51 0 51 30 52 0	8.6970905 8.6978537 8.6986167	10.8845402 10.8843417 10.8841437 10.8839455 10.8837478
38 30 38 30 39 30 40 0	8.6779079 8.6786796 8.6794496	10.8895454 10.8893437 10.8891418 10.8889402 10.8887386	53 30 54 0 54 36	8.7009035 8.7016653 8.7024266	10.8835500 10.8833525 10.8831549 10:8829576 10.8827603
40 30 41 0 41 30 42 0 42 30	8.6817603 8.6825293	10.8885373 10.8883359 10.8881349 10.8879338	56 30	8.7047092 8.7054693 8.7062293	10.8825634 10.8823664 10.8821697 10.8819729 10.8817766
43 30 44 30	8.6856044 8.6863724 8.6871390	10.8875324 10.8873320 10.8871316 10.8869315 10.8867313	58 30 59 30	8.7085069 8.7092656 8.7100239	10.8815801 10.8813841 10.8811880 16.8809923 10.8807964

					16	I)-1	3	G I	RI	EE	S	•				
Minutes	x3_	-b	 ×=	20	5x-	-x	<u>'</u>	20	Minutes	Seconds	x³-	-bx		20	5x-	-x³=	=20
0 3 1 1 3	08008	71 71 71	153 229 305 381	97 73 43 12	10. 10. 10. 10.	38c 38c 38c 38c	60 40 21	09 53 01 48	15 16 16 17	0 30 0 30 0 30	8. 8. 8.	734 734 735 736	.13 .88 .63	41 27 09 91	10.8 10.8 10.8 10.8 10.8	740	7981 5067 1157 2247
3 3 4 4 3	0 8 0 8	.71 .71	683 759	500 358 310	10. 10. 10. 10.	879 879 879	943 923 904	02 54 .10	19	30	8.	738 739 749	362	13 82 46	10.8	73 73 73	652 462 272
	0 0 8	73	98	553 094 634	10. 10. 10.	87 87 87	845 826 807	85	2I 2I 22	30	8. 8. 8.	74 74	235 300 382	27 181	10. 10. 10. 10.	872 872 872	701 512 322
9	0 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3.7: 3.7: 3.7:	236 243 251	231 759 281	10	87 87 87	749	903	23 24 24	30	8.	74	66 68 75	770	10. 10. 10. 10. 10.	871 871 871	754 565 376
111	0	8.7 8 7	273 281	836 341	10	.8 ₇	65 63	332	26 2 26	30	8 8 8 8 8	74 74 75 75	90 97 05 12	51 94 36	10. 10. 10. 10. 10.	870 870 870 870	999 810 62 ₂ 434
14	30	8.7 8.7 8.7	311 318 326	36: 86: 36:	100	.87 .87 .87	55 53 51	64! 720 810	28	30	8 8	75 75 75	35 42 49	04: 45: 86	2 10. 2 10. 3 10.	869 869 869	870 682 495

20

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S.

Seconds Minutes	x³-bx=2c	bx-x3=2c	Seconds Minutes	x³—bx=2c	bx—x³=2
30 0 30 30 31 0 31 30 32 0	8.7564672 8.7572074 8.7579471	10.8689334 10.8687465 10.8685595	45 30 46 0 46 30	8.7785494 8.7792813 8.7800127 8.7807441	10.863748 10.863565 10.863382 10.863199 10.863016 10.862833
13 30 14 30 14 30	8.7609035 8.7616421 8.7623800	10.8681861 10.8679997 10.8678133 10.8676272 10.8674411	48 30 49 0 49 30	8.7829364 8.7836668 8.7843967	10.862651 10.862468 10.862286 10.862104 10.861922
5 30 6 0 6 30 7 0	8.7645027	10.8672554 10.8670695 10.8668839 10.8666982 10.8665130	51 O	8.7865851 8.7873139 8.7880427	10.861740 10.861558 10.861377 10.861195 10.861014
8 0 8 30 9 0	8.7682751 8.7690108 8.7697461	10.8663277 10.8661427 10.8659576 10.8657729 10.8655881	53, 30 54 0 54 30	8.7902270 8.7909547 8.7916820	10.860832 10.860651 10.860470 10.860290 10.860109
0 30 I 0 I 30 2 0	8.7719507 8.7726849 8.7734190	10.8654036 10.8652191 10.8650349 10.8648506 10.8646666	56 o 56 30 57 o	8.793 8625 8.7945887	10.859928 10.859748 10.8595674 10.859387 10.859207
3 0 3 30 4 0 4 30	8.7756193 8.7763522 8.7770848	10 8644826 10.8642991 10.8641154 10.8639320	58 30 59 0 59 30	8.7974912 8.7982163 8.7989409	10.8588480 10.858668 10.8584880

-12	D	T	~	D	7	T	a
17	D	L	G	K	L	L	0.

Minutes	$x^3-bx=2c$	bx—x³=21	Seconds Minutes	x³—bx=2ℓ	bx-x3=20
0 0 0 30 1 0 1 30 2 0 2 30	8.8003896 8.8011137 8.8018373 8.8025607	10.8583094 10.8581302 10.8579509 10.8577721 10.8575931 10.8574145	15 30 16 0 16 30	8.8219970 8.8227135 8.8234296 8.8241456	10.8529881 10.8528128 10.8526373 10.8524622 10.8522872 10.8521124
3 30 4 6 4 30 5 6	8.8047295 8.8054520 8.8061740	10.8572357 10.8570573 10.8568788 10.8567008 10.8565227	18 30 19 0	8 8262915 8.8270065 8.8277209	10.8519377 10.8517631 10.851588 10.8514143
5 30 6 30 7 30 7 30	8.8083389 8 8090600 8.8097811	10.8563448 10.8561669 10.8559892 10.8558115 10.8556342	21 0 21 30 22 c	8.8298634 8.8305769 8.8312904	10.8510666 10.8508918 10.850718 10.8505444 10.8503708
8 6 8 30 9 6 9 30	8.8119420 8.8126619 8.8133814	10.85 54568 10.8552798 10.8551027 10.85492 58 10.85474 8 9	23 30 24 0 24 30	8.8334290 8.8341415 8.8348536	10.8501973 10.8500240 10.8498507 10.8496778 10.849504
10 30 11 0 11 30 12 0	8.8155389 8.8162574	10.8545733 10.8543957 10.8542194 10.8540430 10.8538670	26 o 26 30	8.8369887 8.8376997	10.8493320 10.8491591 10.8489867 10.8488143 10.8486420
3 0 13 30 14 0 14 30	8.8191292 8.8198467 8.8205636	10.8536909 10.8535150 10.8533391 10.8531636 10.8529881	28 30 29 0 29 30	8.8398320 8.8405421 8.8412521 8.8419618	10.8484696 10.8482977 10.8481257 10.8479540 10.8477822

Minutes	1	3—bx=	20	b x —x	³=2¢	Minutes	Seconds	x ³ —bx=2c	bx—x³=2ε
30 0	5	8.84267	14	10.84	77822	45	0	8.8638462	10.8426898
30 30	Э.	XXXXXXX	OF!	10.04	70107	45	30		10.8425221
31 0	3	8 81408	106	10.84	74202	40	0	8.8652503	10.8423543
31 30	3	8.8AA70	84	10.04	72080	40	30	3/3	10.8421868
32 (Э,	8. SAEEC	70	10.04	70900	4/	0	8.8666537	10.8420193
32 30	9	8.84621	53	10.84	9257	47	30	8.8673548	10.8418520
33	ol	8.84692	134	10.84	67546	48	0	8.8680560	10.8416848
33 3	0	8.84763	TT	10.84	058 3 9	48	30	8.8687567	10 8415177
34	0	8.8483	88	10.04	04132	149	0	8.8694575	10.8413507
34 3	0	8.84904	161	10.04	02427	49	30	8.8701577	10.841183
35	9	8.84975	533	10.84	00721	50	0	8.8708586	10.8410172
35 3	0	8.85046	501	10.84	59019	50	30	8.871557	10.840850
36	0	8.85116	668	10.84	57316	ET	30	8.8722574	10.8406842
	0	8.8518	721	10.84	55017	-	30	8.8729568	310.8405180
	0	8.8525	702	10.84	52017		MAN	8.872656	10.840351
37 3	0	8.8532	852	10.84	52220	52	30	100	10.840185
38	0	8.8539	010	10.84	50522	52	. (8.8750540	10.840019
38 3	0	8.8546	064	10.84	40020	52	20	8 875752	10.839853
A CONTRACTOR OF THE PARTY OF TH	0	8.8554	017	10.84	47133	54	C	8.876450	310.839688
	0	8.8561	066	10.84	45440	01	30	8.877148	310.839522
40	0	8.8568	115	10.84	43747	55	Č	8.877846	10 839357
40 3	0	8.8575	159	10.84	4205	55	30	8 878544	3 10.839191
41	0	8.8582	203	10.84	4036	7 56	(8.879241	910.839026
41 3	0	8.8589	242	10.84	38686	56	30	8.879939	010.838861
The second second	0	8.8596	281	10.84	3699	3 57	(8.880635	910.838696
42 3	ю	8.8603	316	10.84	3530	57	30	8.881332	610.838531
43	0	8.8610	351	10.84	3362	3 58	, 00	8.882029	210.838366
	30	8.8617	381	10.84	3194	1 58	30	8.882725	410.838202
	0	8.8624	411	10.84	3025	9 59	1 - (8.883421	610.838037
	30	8.8631	437	10.84	2857	9 59	30	8.884117	410.837873
45_	0		462	10.84	2689	8/60) (8.884813	010.837709

Minutes	$x^3 - bx = 2$	c 5x-x3=20	Minutes Minutes	x=-bx=2	c bx-x3=20
0 0 0 30 1 0 130 2 0 2 30	8.885508 8.8862033 8.8868986 8.8875933	10.8377090 10.8375450 10.8373809 10.8372170 10.8370531 10.8368895	15 30 16 0 16 30	8.906268 8.9069574 8.9076458 8.9083341	10.8329099 10.8326775 10.8325170 10.8323568 10.8321965 10.8320366
3 30 4 0 4 30 5 0	8.8896763 8.8903702 8.8910637	10.8367259 10.8365627 10.8363994 10.8362363 10.8360732	19 0 19 0	8.9103974 8.9110848 8 9117719	10.8318767 10.8317170 10.8315572 10.8313977 10.8312382
5 30 6 0 6 30 7 0 7 30	8.8931434	10.8357474	21 0 21 30 22 0	8.9145186 8.9152048	10.8310789 10.8309196 10.8307606 10.8306016 10.8304430
8 0 8 30 9 0 9 30 10 0	8.8966050 8.8972968 8.8979881	10.8350975 10.8349354 10.8347732 10.8346113 10.8344494	23 30 24 0 24 30	8.9172617 8.9179471 8.9186320	10.8302842 10.8301257 10.8299671 10.8298088 10.8296506
10 30 11 0 11 30 12 0 12 30	8.9000613 8.9007518 8.9014422	10.8342878 ² 10.8341261 ² 10.8339648 ² 10.8338034 ² 10.8336423 ²	6 30	8 9206860	10.8295925 10.8293344 10.8291766 10.8290187 10.8288612
13 0 13 30 14 0 14 30	8.9028223 8.90351191 8.90420161 8.90489071	10.83348112 (0.83332012 (0.83315922 (0.83299852	8 o 8 30 9 o 9 30	8.9234217 8.9241051 8.9247884 8.92547131 8.92615421	10.8285463

Seconds Minutes	x³—bx=20	b x - x ³=≥2¢	Seconds Minutes	x³—b× <u>—</u> 2c	bx—x³=2c
30 0 30 30 31 0 31 30 32 0 32 30	8.9261542 8.9268366 8.9275190 8.9282011 8.9288832 8.9295649	10.8280746 10.8279178 10.8277610 10.8276043 10.8274476 10.8272913	45 30 46 0 46 30 47 0	8.9472194 8.9478957 8.9485718	10.8234179 10.8232646 10.8231613 10.8229582 10.8228650 10.8226521
33 0 33 30 34 0 34 30 35 0	N ACCOMO	10.8208226	48 30 49 6 49 30	8.9512744 8.9519496 8.9526245	10.8224992 10.8223466 10.8221940 10.8220415 10.8218890
35 30 36 0 36 30 37 0 37 30	8.9343316 8.9350116 8.9356916	10.8263550 10.8261992 10.8260438 10.8258884 10.8257332	51 0 51 30 52 0	8.954648 <u>1</u> 8.9553223 8.9559964	10.8217369 10.8215847 10.8214327 10.8212868 10.8211291
38 30 38 30 39 0 39 30 40 0	8.9377300 8.9384092 8.9390881	10.8255786 10.8254236 10.8252686 10.8251133 10.8249586	53 30 54 0	8.958690 8.958690	10.8208258
40 30 41 0 41 30 42 0 42 30	8.941123 8.941801 8.942479	10.8248030 310.8246492 710.824495 710.8243400 310.8241860	56 0 56 30	8.9613816 8.9620532 8.9627252	610.8202208 010.8200698 210.8199190 410.8197682 210.8196176
43 30 43 30 44 0 44 30 45 0	8.944512 8.945189 8.945866	8 10.8240328 2 10.823879 4 10.823725 3 10.823571 1 10.823417	58 30 59 0 559 30	8.964740 8.965411 8.966082	910.8194669 310.8193167 610.8191664 610.8190162 610.818866

Seconds Minutes	x³—bx—2c	bx—x³=2c	Seconds Minutes	$x^3-bx=2c$	$bx-x^3=2$
0 30 1 0 1 30 2 0 2 30	8.9674242 8.9680948 8.9687650 8.9694351	10.8188660 10.8187162 10.8185664 10.8184168 10.8182671 10.8181177	15 30 16 0 16 30	8.9874576 8.9881225 8.9887872 8.9894518	10.814417 10.814271 10.814124 10.813978 10.813832 10.813686
3 0 3 30 4 0 4 30 5 0	8-9714444 8-9721138 8-9727829	10.8179681 10.8178190 10.8176698 10.8175209 10.8173719	19 30 19 30	8.9914443 8.9921082	10.813540, 10.813394 10.813249 10.813103 10.812958
5 30 6 0 6 30 7 0 7 30	8.9747893 8.9754576 8.9761259	10.8172232 10.8170745 10.8169260 10.8167775 10.8166292	21 0 21 30 22 0	8.9947616 8.9954245 8.9960873	10.812812 10.812667 10.812522 10.812376 10.812232
8 0 8 30 9 0 9 30	8.9781296 8.9787972 8.9794644	10.8164808 10.8163328 10.8161848 10.8160370 10.8158892	23 30 24 0 24 30	8.9980743 8.9987364 8.9993982	10.812087 10.811942 10.811798 10.811653 10.811509
10 30 11 0 11 30 12 0	8.9814652 8.9821317 8.9827981	10.8157416 10.8155940 10.8154467 10.8152993 10.8151522	26 0 26 30 27 0	9.0013827 9.0020438 9.0027048	10.811364 10.811220 10.811076 10.810932 10.810789
13 0 13 30 14 0 14 30	8.9847961 8.9854619 8.9861273	10.8150051 10.8148581 10.8147111 10.8145645 10.8144178	28 30 29 0 29 30	9.0046864	10.810645 10.810501 10.810358 10.810215

Vinutes 1	x³ —b x =20	bx—x³=2c	Seconds Minutes	x3 bx=2c	bx-x3=20
30 0 30 30 31 0 31 30 32 0 32 30	9.0073262 9.0079858 9.0086451 9.0093044	10.8095000	45 30 46 0 46 30 47 0	9.0270365 9.0276910 9.0283451 9.0289992	10.8058269 10.8056871 10.8055474 10.8054079 10.8052684 10.8051292
33 30 33 30 34 30 34 30	9.0112808	10.8092147 10.8090724 10.8089301 10.8087879 10.8086457	48 30 49 0 49 30	9.0309602 9.0316137 9.0322667	10.8049899 10.8048508 10.8047117 10.8045729 10.8044341
35 30 36 36 36 36 37 30	9.0145714 9.0152290 9.0158866	10.8085038 10 8083618 10.8082200 10.8080782 10.8079368	51 30 51 30	9.0342253 9.0348777 9.0355301	10.8042955 10.8041569 10.8040185 10.8038801 10.8037419
38 30 39 30 39 30 40 0	9.0178577	10.8677953 10.8676541 10.8675129 10.8673718 10.8672307	53 30 54 C	9.0368345 9.0374862 9.0381379 9.0387894	10.8036037 10.8034658 10.8033275 10.803150 10.8030524
41 30	9.0211398	10.8070899 10.8069490 10.8068084 10.8066678 10.8065274	56 30 57 C	9.0400919 9.0407430 9.0413938 9.0420445	10,8029140 10,8027774 10,8026402 10,8025020
44 30	9.023762 9.0244175 9.0250726 9.0257274	10.8063871 10.8862469 10.8861866 10.8853668	58 39 58 39 59 39	9.0430956 9.0446458 9.0452956	10.8022287 10.8020918 10.8019550 10.801818

20 DEGRE	TOO
20 11 H C- R B	H

Seconds	,,—b y =≥∤	'x-+1=2i	Seconds Minutes	x³—b x=2 €	5x-23=26
0 30	9.0405948 9.0472442 9.0478934 9.048542	10.8016817 10.8015454 10.8014000 10.8012728 10.8011366	15 30 16 0 16 30 17 0	9.0660068 9.0666515 9.0672958 9.0679402	10.7976357 10.7975026 10.7973695 10.7972366 10.7971038
3 30 4 0 4 30 5 0	9.049840 9.050488 9.051137	10.8008646 710.8007280 210.8005932 310.8005932 410.800322	18 0 18 30	9.0692284 9.0698721 9.0705158 9.0711594	10.7968384 10.7967059 10.7965734 10.7964412 10.7963080
6 30	9.053681 9.053729 9.054376 9.055024	10.8001860 10.8000516 710.799916 210.799781 510.799646	20 30 21 0 21 30	9.073089	10.7961768 10.7960448 10.7959130 810.795781
8 30 9 30 9 30	9.056318 9.056965 9.057612 9.658250	810.799511 610.799377 410 799242 110.799107 810.798973	6 23 C 2 23 30 4 24 C 9 24 30	9.075659 9.076302 9.076944	10.795517 210.795386 410.795255 310.795124 110.794992
11 30	9.060198 9.060844 9.061490	0 10.798839 2 10.798705 2 10.798571 2 10.798437 8 10.798303	225 30 926 0 926 30	9.078869 9.079511 9.080152 9.080794	8 10.794862 4 10.794731 7 10.794600 0 10.794469 1 10.794339
13130 14230 14330	9.062781 9.063426 9.064072	510.798169 810.798036 010.797902	5 28 6 28 30 4 29 6	9.082076	110-794298 810-794078 510-793947 910-793817 510-793887

		100					_						
Minutes	æ3—	bx=2	cbx-	shrik sale	=24	Minutes	beconds	x3	bx:	=2i	bx-	250 3 -	=2
30, 0	9.0	84638	10	7936	377	4.5	0	9.1	037	800	10.7	898	36
	9.0	85278	6 10.	7935. 7934	70	45	30	9.1	044	157	10,7	897	50
31 30	9.0	85918 86558	10	79320	183	16	30	9.1	1056	868	19.7	804	93
2	0.0	87198	3 10.	79310	287	47	30				10,7		
32 30	9.0	87837	8 10.7	7930	392	47	30				10,7		
30	9.0	88477	10.	9290	298	48	0	9.1	075	927	10.7	890	78
3 30	9.0	89116	6 10.	19278	306	48	30	9.1	082	275	10.7	889	52
4 0		89755					0	9.1	088	623	10.7	888	26
4 39		90394	7 10.7	9252	223	49	30	9 1	094	909	10.7	22-	00
35 0	-	91033		1	-		0	-	-		-		
35 39		91672	3 10.	79226	45	50	30	9.1	107	658	10.7	584	49
6 c	9.0	92310	910.7	7921	357	21	30	9.1	120	1201	10.7	RRT	43 08
36 30 37 C		92949					0	9.1	126	681	10.7	880	72
37 30		94225					30				10.7		
38	0.0	94863	6/10	7016	220	53	0	9.	1130	255	10.7	878	22
38 30	9.0	95501	410	7914	938	53	30	9.	14	690	10.7	876	97
39 0	9.0	96139	2 10.	7913	656	54	0				10.7		
39 39		96776					30				10.		
to d	9.0	97414	110	7911	097	55	0	7.0	+++0	539	10.		5.
to 30		98051					30	9.	117	1018	10.	787-1	98
11		98688					9	9.	117	347	10.	070	74
1 30		99325					30	9.	118	2008	10.	7868	376
12 30		100598					30				10.		
13 (9	101235	210.	7903	448	58	(9	120	264	10.	786	577
13 30	9.	101871	610.	7902	178	5 5 8	30	9.	120	8961	10.	786	153
· 图: (10) 200 (1)	9.	102507	19 10	7900	90	159	(7 10.		
44 3	9.	103144	1010	7899	631	59	3				510.		
45	01 9.	103780	oilo	.7090	30	0100	,	0 9	122	792	2 10	100	97

Seconds Minutes	x'-bx=2	5x—x³⇒2ε	Seconds Minutes	x ³ — bx =20	bx—x³=20
0 30	9.1234238 9.1240553 9.1246865	10.7860726 10.7859592 10.7858357 10.7857125 10.7855893 10.7854663	15 30 16 0	9.1423084 9.1429359 9.1435631 9.1441903	10.7824241 10.7823038 10.7821835 10.7820635 10.7819435 10.7818236
3 444	9.1272104 9.1278412 9.1284716	10.7853433 1c.7852204 10.7850976 10.7849750 10.7848524	19 30 19 30	9 1460708 9 1466975 9 1473240	10.7817038 10.7815842 10.7814647 10.7813452 10.7812257
5 36 30 5 7 7 30 T 7 30	9.1297321 9.1303622 9.1309922 9.1316221	10.7847301 10.7846078 10.7844856 10.7843633 10.7842414	20 30 21 0 21 30 22 0	9.1492029 9.1498288 9.1504546	10.7811069 10.7809873 10.7808682 10.7807494
8 30 9 30 9 30	9.1335106 9.134140 9.134769	10.7841196 10.7839978 10.7838766 10.7837545 10.7836329	23 30 24 0 24 30	9.1523313 9.1529567 9.1535820	10.7805110 10.7803933 10.7802747 10.7801568 10.7800370
10 30 11 30 11 30 12 (12 30	9 1366556 9 1372842 9 1379129	10.7835117 10.7833904 10.7832692 10.7831481 10.7830273	26 0 26 30 27 0	9.1554569 9.1560816 9.1567062	10.7799198 10.7798017 10.7796838 10.7795658
13 °C 13 °3°C 14 °C	9.1397973	10.7829064 10.7827857 10.7826650 10.7825445	28 30 29 0 29 30	9.1585790 9.1592031 9.1598270	10 7793305 10 7792130 10 7790955 10 7789782 10 7788666

		21 DE	G R	EES.	
Seconds Minutes	x³—bx=2c	bx-x³==24	Seconds Minutes	x³—bx=2c	b x—x³=2 c
30 0 30 30 31 0 31 30 32 0	9.1610745 9.1616982 9.1623216	10.7788609 10.7787437 10.7786266 10.7785098 10.7783929 10.7782762	45 30 46 0 46 30 47 0	9.1797277 9.1803476 9.1809673 9.1815870	10.7753922 10.7752783 10.7751644 10.7750507 10.7749370 10.7748234
33 0 33 30 34 0 34 30 35 0	9.1641912 9.1648141 9.1654370 9.1660596	10.7781596 10.7780431 10.7779266 10.7778104 10.7776942	48 0 48 30 49 0 49 30	9.1834452 9.1840644 9.1846834	10.7747099 10.7745966 10.7744832 10.7743702 10.7742571
35 30 36 30 36 30 37 0 37 30	9.1679269	10.7775781 10.7774621 10.7773463 10.7772304 10.7771147	51 0 51 30	9.1865398 9.187158 9.1877768	10.7741442 310.7740314 310.7739187 310.7738060 110.7736939
38 30 38 30 39 0 39 30 40 0	9.171036 9.171658 9.172279	10.7769991 710.7768837 310.776768 710.776653	53 30 54 0	9 189631 9 190249 9 190867	10.7735816 10.7734687 610.7733564 10.7732444 110.774132
41 30 41 30	9.174143 9.174764 9.175385	2 10.7764230 3 10.776308 2 10.776193: 2 10.776078. 9 10.775963	1 56 Q 2 56 30 4 57 Q	9-192720 9-193337 9-193955	7 10.774020 3 10.772908 6 10.772797 0 10.772685 1 10.772573
43°3°	9.177246	5 10.775849 9 10.775734 10.775620 6 10.775506	659	9.195806	3 10.772462 1 10.772351 9 10.772240 7 10.772129

Seconds Minutes	x ³ —bx=2q	b x —x³=2	Seconds Minutes	w :b x =2c	<i>bx</i> +x³=2
0 0 0 0 30 1 0 13 0 2 0 2 30	9.1982728 9.1988892 9.1995054 9.2001216	10.7720180 10.7719072 10.7717964 10.7716858 10.7716752 10.7714649	15 30 16 0 16 30 17 0	9.2167146	10.7687370 18.768630 10.768522 10.7684150 10.7683071 10.768200
3 30 4 0 4 30 5 0	(10.7710242	18 30 19 0 19 30 20 0	9.2203912 9.2210037 9.2216159 9.2222280	10.768093 10.7679866 10.7678786 10.767772 10.767665
5 30 6 0 6 30 7 0	0.2050406	10.7708045 10.7706946 10.7705851 10.7704755 10.7703662		9.2228400 9.2234520 9.2240638 9.2246755 9.2252871	10.7674526
2 30	9.2081210	10.7702568 10.7701478 10.7700387 10.7699298 10.7698208	24 0 24 39	9.2265100 9.2271212 9.2277324	10.7 6 7026 10.76 6 920 10.766814 10.7667090 10.7 6 66032
11 0	9.2111927	10.7697121 10.7696035 10.7694949 10.7693863 10.7692780	26 30	9.2201762	10.766286
13 30 13 30	9.2136481 9.2142616 9.2148751 9.2154883	10.7691697 10.7690616 10.7689535 10.7688457 10.7687379	28 30 28 30 29 0 29 30	9.2326182 9.2326182 9.2332285 9.2338385	10.765970 10.765865 10.765760 10.765656

30 0 9.2344486 10.7655514 45 0 9.2527021 10.7624 30 30 9.2350585 10.765342346 0 9.2533080 10.7623 31 0 9.235688 10.7652380 46 30 9.2539157 10.7622 32 0 9.2368877 10.7652380 46 30 9.2557355 10.7623 33 0 9.2374971 10.7650295 47 30 9.2557355 10.7619 33 0 9.2381066 10.7649254 48 0 9.2551291 10.7620 33 30 9.2387158 10.7648214 48 30 9.2569482 10.7617 34 0 9.2393251 10.764613849 30 9.2569482 10.7616 35 0 9.244751 10.7644065 50 30 9.2587666 10.7616 35 30 9.24471521 10.7644065 50 30 9.2587666 10.7616 36 30 9.2447061 10.7643030 51 0 9.2587666 10.7617 36 30 9.2447061 10.7643030 51 0 9.2599783 10.7612 37 30 9.2448033 10.7644096 51 30 9.2605839 10.7612 38 0 9.2448033 10.7637873 53 30 9.2611896 10.7610 39 30 9.2448033 10.7637873 53 30 9.2630059 10.7607 30 9.2454116 10.7636844 54 0 9.2636112 10.7608 30 0 9.244803 10.7637873 55 30 9.2630059 10.7607 30 0 9.245878 10.7637873 55 30 9.2630059 10.7607 30 0 9.2458867 10.7637873 55 30 9.2632059 10.7602 30 0 9.2450197 10.7635817 54 30 9.2642162 10.7605 30 0 9.2450197 10.7637875 55 30 9.264263 10.7603 31 0 9.2472355 10.7633765 55 30 9.2660312 10.7602 31 30 9.2496661 10.7639695 57 0 9.2660312 10.7602 31 30 9.2496887 10.7639695 57 0 9.2672406 10.7602 31 30 9.2496887 10.7639695 57 0 9.2672406 10.7602 31 30 9.2496887 10.7639695 57 0 9.2672406 10.7602 31 30 9.2496887 10.7639695 57 0 9.2672406 10.7602 31 30 9.2496887 10.7639695 57 0 9.2672406 10.7602 31 30 9.2496887 10.7639695 57 0 9.2672406 10.7602	Seconds Minutes	α3—3x—2ε	x-1=20	Seconds Minutes	x³bx <u></u> 2c	bx—x³==21
31 30 9.2362780 10.7652380 46 30 9.2545224 10.7621 32 0 9.2368877 10.7651337 47 0 9.2551291 10.7620 32 30 9.2374971 10.7650295 47 30 9.2557355 10.7619 33 0 9.2381066 10.7649254 48 0 9.2563419 10.7618 33 30 9.2387158 10.7648214 48 30 9.2569482 10.7617 34 0 9.2393251 10.764613849 30 9.2575545 10.7616 35 0 9.2405432 10.764613849 30 9.2581606 10.7616 35 0 9.2417610 10.7643030 51 0 9.2587666 10.7614 36 0 9.2417610 10.7643030 51 0 9.2599783 10.7612 37 0 9.2429783 10.7640963 52 0 9.2605839 10.7611 38 0 9.2441951 10.7638903 52 0 9.2611896 10.7610 38 0 9.2448033 10.7639933 52 30 9.2624007 10.7608 38 0 9.2448033 10.7638983 53 0 9.2630059 10.7606 39 30 9.2460197 10.7638844 54 0 9.2636112 10.7608 39 0 9.2454116 10.7638844 54 0 9.2636112 10.7608 30 9.2460197 10.7638845 54 30 9.2630059 10.7606 30 9.2472355 10.7634790 55 0 9.2654263 10.7606 30 9.2478433 10.7634790 55 0 9.2660312 10.7606 30 9.2478433 10.7634790 55 0 9.2660312 10.7606 30 9.2478433 10.7634790 55 0 9.2660312 10.7606 30 9.2478435 10.7634790 55 0 9.2660312 10.7606 30 9.2478435 10.7634790 55 0 9.2660312 10.7606 30 9.2478435 10.7634790 55 0 9.2660312 10.7606 30 9.2478435 10.7634790 55 0 9.2660312 10.7606 30 9.2478455 10.7634790 55 0 9.2660312 10.7606 30 9.2478455 10.7634790 55 0 9.2660312 10.7606 30 9.2478455 10.7634790 55 0 9.2660312 10.7606 30 9.2478455 10.7634790 55 0 9.2660312 10.7606 30 9.2486061 10.7629675 57 30 9.2660312 10.7606	30 30	9.2350585	10.7654469	45 30	9.2533089	10.7623571
9.2381066 10.7649254 48 0 9.2563419 10.7618 9.2569482 10.7617 9.2569482 10.7617 9.2575545 10.7616 9.239325 10.764613849 30 9.2587666 10.7616 9.2405432 10.7645100 50 0 9.2587666 10.7614 9.2417610 10.7643030 51 0 9.2417610 10.7643030 51 0 9.2599783 10.7616 9.2429783 10.7641996 51 30 9.2605839 10.7616 9.2429783 10.764963 52 0 9.261896 10.7616 9.2611896 10.7616 9.2611896 10.7616 9.2611896 10.7616 9.2611896 10.7608 9.2448033 10.7638903 53 0 9.2630059 10.7607 9.2448033 10.7638903 53 0 9.2630059 10.7608 9.2448033 10.7638903 53 0 9.2630059 10.7608 9.2448033 10.7638903 53 0 9.2630059 10.7608 9.2448033 10.7638903 53 0 9.2630059 10.7607 9.2448033 10.7638903 53 0 9.2630059 10.7608 9.2448033 10.7638903 53 0 9.2630059 10.7608 9.2448033 10.7638903 53 0 9.2630059 10.7608 9.2448033 10.7638903 53 0 9.2630059 10.7608 9.2448033 10.76387873 53 30 9.2630059 10.7608 9.2448033 10.76387873 53 30 9.2630059 10.7608 9.2448033 10.76387873 53 30 9.2630059 10.7608 9.2448033 10.76387873 53 30 9.2630059 10.7608 9.2648213 10.7608 9.2648213 10.7608 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.2660312 10.7609 9.26600312 10.7609 9.26600312 10.7609 9.26600312 10.7609 9.26600312 10.7609 9.26	1 30	9.2362780	10.7652380	46 30	9.2545224	10.7621544
4 30 9.2399342 10.764613849 30 9.2581606 10.7615 5 0 9.2405432 10.7645100 50 0 9.2587666 10.7614 5 30 9.2417610 10.7643030 51 0 9.2599783 10.7612 6 30 9.2429783 10.7640963 52 0 9.2605839 10.7611 7 0 9.2429783 10.7640963 52 0 9.2611896 10.7610 7 30 9.24435867 10.7639933 52 30 9.2617951 10.7609 8 0 9.2441951 10.7638903 53 0 9.2630059 10.7607 9 0 9.2454116 10.7638844 54 0 9.2636112 10.7606 9 0 9.2460197 10.7635817 54 30 9.2630059 10.7607 0 9.2466278 10.7635817 54 30 9.2642162 10.7605 0 9 0 9.2472355 10.7633765 55 30 9.2660312 10.7604 0 30 9.2472355 10.7632741 56 0 9.2660312 10.7604 0 30 9.2472355 10.7632741 56 0 9.2660312 10.7602 0 9 0 9.2490587 10.7630695 57 0 9.2672406 10.7600 0 9 0 9.2490587 10.7630695 57 0 9.2672406 10.7600 0 9 0 9.2490587 10.7630695 57 0 9.2672406 10.7600 0 9 0 9.2490587 10.7630695 57 0 9.2672406 10.7600 0 9 0 9.2490587 10.7630695 57 0 9.2672406 10.7600 0 9 0 9.2502735 10.7628655 58 0 9.2684498 10.7598 0 9 0 9.2508808 10.7627636 58 30 9.2690541 10.7597	3 o	9.2381066	10.7649254	48 30	9.2563419	10.761851
6 0 9.2417610 10.7643030 51 0 9.2599783 10.7612 9.2605839 10.7611 9.2605839 10.7611 9.2611896 10.7611 9.2611896 10.7610 9.2429783 10.7640963 52 0 9.2617951 10.7609 8 0 9.2441951 10.7638903 53 0 9.2630059 10.7607 9.2630112 10.7608 9.2630059 10.7607 9.2630112 10.7608 9.2630112 10.7608 9.2630112 10.7608 9.2630112 10.7608 9.2630112 10.7608 9.2630112 10.7608 9.2630112 10.7608 9.2642162 10.7608 9.2642162 10.7605 9.2642162 10.7605 9.2642162 10.7605 9.264213 10.7604 9.265231 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660312 10.7603 9.2660359 10.7601 9.2672406 10.7600 9.2672406 10.7500 9.26600 9.	4 30	9.2399342	10.7646138	49 30	9.2581606	10.7615488
7 0 9.2429783 10.764096352 0 9.2617951 10.7610 7 30 9.2435867 10.7638903 52 0 9.2624007 10.7608 8 0 9.2448033 10.7637873 53 30 9.2630059 10.7607 9 0 9.2454116 10.7636844 54 0 9.2636112 10.7606 9 30 9.2460197 10.7635817 54 30 9.2642162 10.7605 0 0 9.2466278 10.7634790 55 0 9.2642162 10.7604 0 30 9.2472355 10.7633765 55 30 9.265223 10.7604 0 0 9.2478433 10.7632741 56 0 9.2660312 10.7602 1 30 9.2478433 10.7632741 56 0 9.2660312 10.7602 1 30 9.248651 10.7630695 57 0 9.2672406 10.7602 2 0 9.2496661 10.7629675 57 30 9.2672406 10.7600 2 30 9.2502735 10.7628655 58 0 9.2684498 10.7598 3 0 9.2502735 10.7628655 58 0 9.2684498 10.7598 3 30 9.2508808 10.7627636 58 30 9.2690541 10.75978	6 0	9.2417610	10.7643030	51 0	9.2599783	10.761247
8 30 9.244803310.763787353 30 9.2630059 10.7007 9 0 9.2454116 10.7636844 54 0 9.2636112 10.7606 9 30 9.2460197 10.7635817 54 30 9.2642162 10.7605 0 9 2.2466278 10.7634790 55 0 9.2648213 10.7604 1 0 9.2478433 10.7632741 56 0 9.2660312 10.7602 1 30 9.2484510 10.7632741 56 0 9.2660312 10.7602 2 0 9.2490587 10.7630695 57 0 9.2672406 10.7600 2 30 9.2496661 10.7629675 57 30 9.2672406 10.7600 2 30 9.2592735 10.7628655 58 0 9.2684498 10.7598 3 30 9.2598868 10.7627636 58 30 9.2690541 10.75978	7 o 7 30	9.2429783 9.2435867	10.7640963	52 0 52 30	9.2617951	10.7610477
9.248213 10.7604 9.2472355 10.7633765 55 30 9.2654263 10.7603 9.2478433 10.7632741 56 0 9.2660312 10.7602 9.2484510 10.7631718 56 30 9.2666359 10.7601 9.2490587 10.7630695 57 0 9.2672406 10.7600 9.2496661 10.7629675 57 30 9.2678452 10.7599 9.2502735 10.7628655 58 0 9.2684498 10.7598 9.2502735 10.7627636 58 30 9.2690541 10.7597	30 9 0	9.2448033	10.7637873	53 30 54 0	9.2630059	10.7607473
1 0 9.2478433 10.763274156 0 9.2660312 10.7602 1 30 9.2484510 10.7631718 56 30 9.2666359 10.7601 2 0 9.2490587 10.7630695 57 0 9.2672406 10.7600 2 30 9.2496661 10.7629675 57 30 9.2678452 10.7599 3 0 9.2502735 10.7628655 58 0 9.2684498 10.7598 3 30 9.2508808 10.7627636 58 30 9.2690541 10.7597	979	9.2466278	10.7634790	55 °	9.2648213	10.7604485
2 30 9.2496661 10.7629675 57 30 9.2678452 10.7599 3 0 9.2592735 10.7628655 58 0 9.2684498 10.7598 3 30 9.2598868 10.7627636 58 30 9.2690541 10.7597	I 0 I 30	9 2478433	10.7632741	56 o 56 30	9.2660312	10.7602496
3 30 9.2508808 10.7627636 58 30 9.2690541 10.7597	2 30	9.2496661	10.7629675	57 30	9.2678452	10.7599524
4 0 9.2514881 10.7626617 59 0 9.2696584 10.7596 4 30 9.2520951 10.7625601 59 30 9.2702625 10.7595	4 0	9.2514881	10.7626617	59 0	9.2690541	10.7597547

Seconds Minutes	x³—bx=2(bx-x3=20	Seconds Minutes	v³—bx=2c	bx-x³=20
0 0 0 30 1 0 1 30 2 0 2 30	9 2714706 9 2720747 9 2726784 9 2732821	10 7594590 10.7593666 10.7592623 10.7591642 10.7590661 10.7589682	15 30 16 0 16 30	9.2875483 9.2901496 9.2907507 9.2913517	10.7565530 10.7564577 10.7563624 10.7562675 10.7561725
3 0 3 30 4 0 4 30 5 0	9.2750928 9.2756961 9.2762994	10.7588702 10.7587726 10.7586749 10.7585774 10.7584769	18 30 19 0	9.2937549	10.7559830 10.7558884 10:7557937 10.7556993 10.7556049
5 30 6 0 6 30 7 0 7 30	9.2781086 9.2787115 9.2793144	10.7583826 10.7582854 10.7581883 10.7580912 10.7579943	21 0 21 30 22 0	9.2961567 9.2967569 9.2973571	10.7553227
8 0 8 30 9 0 9 30	9.2811223 9.2817248 9.2823271	10.7578974 10.7578007 10.7577040 10.7576077 10.7575113	23 30 24 0 24 30	9.2985572	10.7550412 10.7549476 10.7548541 10.7547608 10.7546674
10 30 11 0 11 30 12 0	9.2835314 9.2841336 9.2847355 9.2853375	10.7574150 10.7573188 10.7572227 10.7571267 10.7570309	25 30 26 0 26 30 27 0	9:3015557 9:3021552 9:3027545 9:3033538	10.7545743 10.7544812 10.7543883 10.7543954 10.7542027
LOND ON	9.2865416 9.2871426 9.2877442 9.2883456	10.7569350 10.7568394 10.7567438 10.7566484 10.7565530	28 c 28 3c 29 c 29 30	9.3045523 9.3051512 9.3057502 9.3063491	10.754 1090 10.7540174 10.7539250 10.7538327

1		7.17	and Kulan	
econds Minutes	$x^3 - bx = 2c bx - x^3 = 2c$	Minutes	bx=2c	$x-x^3=2$
30 30 30 30 31 30 31 30 32 30	9.3075466 10.753648; 9.3081453 10.753556; 9.3087438 10.753464; 9.3093423 10.753372;	2 45 30 1 46 0 2 46 30 3 47 0	9.3254700 9.3266662 9.3266623 9.3272584	10.7510213 10.7509322 10.7508432 10.7507547 10.7506666
33 G 33 3G 34 G 34 3G	9 311137110 753097 9 3117353 10.753006 9 3123333 10.7529140	48 30 49 0	9.3290460 9.3296418 9.3302374	10.7504889 10.7504000 10.7503122 10.7502246 10.750135
35 30 36 0 36 30 37 0	9.314127110 7526419 9.3147247 10.7525507 9.3153223 10.7524590	51 0 51 30 52 0	9.3320240 9.3326193 9.3332146	10.7500479 10.7499600 10.7498723 10.7497846 10.7496972
38 30 38 30 39 30 40 0	9.3171147 10.7521881 9.3177121 10.7520977 9.3183093 10.7520075	53 30 54 n 54 30	9.3344049 9.3349999 9.3355950 9.3361899	10.7490097 10.7495223 10.7494350 10.7493479 10.7492608
40 30 41 0 41 30 42 0 42 30	9.3201005 10.7517373 9.3206975 10.7516475 9.3212944 10.7515576	3 56 0 56 30 57 0	9.3373794 9.3379740 9.3385687 9.3391633	10.7491740
43 0 43 30 44 0 44 30	9.3230843 10.7512891 9.3236809 10.7511997 9.3242773 10 7511105	58 30 59 30	9.3403521 9.3409464 9.3415407 9.3421347	10.7487409 10.7486546 10.7485683 10.7484823

24 DEGREES.								
Minutes	³-b x =20	x—x³=2	Seconds Minutes	x3bx=2	5 x−x ³=26			
0 (10.7483904						
.0 30		10.7483105						
	9:3439167	10 7482247	16 0	9.3617015	10.7456999			
1 30	9.3445100	10.7481390	10 30	9.3022932	10.7450174			
2 30	9.3451045	10.7480533	17 20	9 3628850				
-	Andrew Service			9.3034703	-5./43432			
Proceedings.	9.3462918	10.7478826	18 0	9.3640681				
3 3	9.3408853	10.7477973	18 30	9.3646595				
	9.3474789	10.7477121	119 0	9 3652510				
4 3	9.3400723	10 7476271	19 30	9.3658423	10 745124			
	9.3486657	10.7475421	20 0	9 3664335	10 /45042			
5 3	9-3492589	10 747457	20 30	9.3670246	10.744961			
	9.3498522	10.7473726	21 0	0.3676158	10.744879			
6 3		10 7472880	21 30	9.3682069	10.744797			
7 3	9.3510383	10.747203		0 3687080	10.744710			
The said	9.3510313	10.747119	22 30	9.3693889	10.744635			
	9.3522243	10.747034	23 0	9.3699797	10.744554			
8 3	9.3528171	10.746950	23 30	9 3705705	10.744473			
	9.3534099	10 746866	324 0		10.744392			
9 3		10 746782		9-3717519	10.744311			
1	9-3545953	10.746698	25 0	9 3723425	10.744230			
10 3	9.3551878	10.7466148	3 25 30	9.3720221	10.744149			
2000	9.3557803	10.746531	26 0	9.3735236	10 744069			
11 3	9 3573727	10.745447	126 30	9.3741130	10.743988			
50000000000	9.3569651	10.7463636	27 0	9 3747042	10.743908			
19 7	Marie Constitution Conference of the Constitution of the Constitut	10.7462800	Of Charles and Control of the Contro	9-3752945	10.743828			
	9.358149	10.746197	28 0	0.2758845	10.743748			
13 3	9.3507418	110.7401142	2 28 20	9:3764740	10.743668			
	9 3593339	10.7460311	20 0		10.743588			
4 3	9.3599258	10.7450482	20 20	9 3776551	10.743508			
5	9.3605178	10.7458654	130 0	9.3782451	10.742428			

24 DEGREES.							
Seconds Minutes	x3—bx=2	≈-x³= 2₁	Seconds Minutes	$x^3-bx=2$	bx-x3=20		
30 0 30 30 4 0 4 30 2 0 32 30	9.3788349 9.3794247 9.3800145 9.3806043	10.7434287 10.7433493 10.7432699 10.7431111 10.7430320	45 30 46 0 46 30 47 0	9.3965029 9.3970910 9.3976788 9.3982667	10.7410873 10.7410109 10.7409346 10.7408584 10.7407823 10.7407064		
3 0 3 30 4 0 4 30 5 0	9.3823729 9.3829624 9.3835517	10.7429530 10.7428741 10.7427952 10.7427165 10.7426379	48 30 49 0 49 30	9 4000300 9 4006176 9 4012052	10.7406304 10.7405548 10.7404792 10.7404036 10.7403280		
35 30 36 0 36 30 37 0	9.3853196 9.3859087 9.3864979	10.7425593 10.7424808 10.7424025 10.7423243 10.7422462	51 0 51 30 52 0	9.4029676 9.4035550 9.4041424	10.7402528 10.7401776 10.7401024 10.7400272 10.7399524		
8 0 8 30 9 0 9 30	9.3882647 9.3888536 9.3894423	10.7421682 10 7420903 10.7420124 10.7419349 10.7418573	53 30 54 0 54 30	9.40 5 9039 9.4064910 9.4070780	10.7398776 10.7398026 10.7397282 10.7396538 10.7395794		
0 30 1 0 1 30 12 0	9 3912084 9 3917968 9 3923852	10 7417798 10.7417024 10.7416252 10.7415480 10.7414710	56 0 56 30 57 0	9.4088386 9.4094254 9.4100122	10.7395052 10.7394310 10.7393570 10.7392830 10.7392091		
13 0 13 30 14 0 14 30	9-3947385	10.7413940 10.7413173 10.7412403 10.7411630	58 30	9.4117721	10.739135 10.739061 10.738988 10.738914 510.738841		

ar w. I	And the second		Property and and a	personal de la company	ages with the second
Minutes 1	$x^3-bx=2$	$hx - x^3 = 2a$	Seconds Minutes	$x^3-b=2i$	bx-x3=20
0 0 0 0 1 0 0 1 30 2 0 2 30 2 30	9.4141178 9.4147042 9.4152905 9.4158767	10.7388415 10.7387682 10.7386950 10.7386221 10.7385491 10.7384764	15 30 16 0 16 30	9.4316843 9.4322692 9.4328538 9.4334385	10.7366915 10.7366215 10.7365516 10.7364818 10.7364121 10.7363427
3 C 3 30 4 0 4 30 5 0	9.4176349	10.7384037 10.7383311 10.7382586 10.7381863 10.7381140	19 0	9.4351921 9.4357766 9.4363609	10.7362732 10.7362030 10.7361346 10.7360655 10.7359965
5 30 6 6 6 30 7 0 7 30	9.4205643	10.7380419 10.7379699 10.7378980 10.7378261 10.7377545	21 30	9.4381139 9.4386982 9.4392825	10.7359276 10.7358587 10.7357900 10.7357213 10.7356529
8 30 9 0 9 30 0 0	9.4229069 9.4234924 9.4240779 9.4246633	10.7376829 10.7376114 10.7375399 10.7374687 10.7373975	23 30 24 0 24 30	9.4410346 9.4416186 9.4422025	10.7355846 10.7355164 10.7354482 10.7353801 10.7353121
I 0	9.4258340 9.4264193 9.4276045 9.4275897 9.4281747	10:7372553 10:7371845 10:7371137	26 30 26 30	9.4439541 9.4445379 9.4451217	10.7352443 10.7351765 10.7351089 10.7350413 10.7349740
3 30 4 0 4 30 5 0	9.4293448 9.4299298 9.4305147	10,7369726 10,7369022 10,7368318 10,7367617 10,7366915	28 30 29 0 29 30	9.4462890 9.4468725 9.4474560 9.4480395 9.4486230	10 7347724

Seconds Minutes	x³—þx=2c	bx-x³=20	Minutes	$\sqrt{a^3-bx}=2a$	7x-x3=20
30 0 30 30 31 0	9.4492063	10.7346386 10.7345719 10.7345053	45 30	9.4666883	10.7326834 10.7326199 10.7325565
31 30 32 0 32 30	9.4503730	10.7344388 10.7343723 10.7343059	47 0	9.4678525	10.7324933 10.7324301 10.7323671
33 9 33 30 34 0 34 30	9.4521228 9.4527058 9.4532889 9.4538720	10.7342396 10.7341736 10.7341077 10.7340418	48 o 48 30 49 o 49 30	9.4695985 9.4701803 9.4707622 9.4713440	10.7323041 10 7322413 10.7321786 10.7321160
35 0 35 30 36 0 36 30	9.4556208	10.7339759 10.7339103 10.7338448 10.7337793 10.7337139	50 30 51 0	9.4725075 9:4730892 9.4736709	10.7320534 10.7319911 10.7319288 10.7318667 10.7318046
37 30 88 30 89 30	9.4573693 9.4579521 9.4585348 9.4591176 9.4597001	10.7335837 10.7335837 10.7335186 10.7334536 10.7333889	52 30 53 0 53 30 54 0 54 30	9.4748342 9.4754159 9.4759973 9.4765787 9.4771602	10.7317426 10.7316807 10.7316191 10.7315575 10.7314960
0 0 0 30 1 0 1 30 2 0 2 30	9.4602826 9.4608652 9.4614478 9.46203021 9.46261261 9.46319561	10.7332\$96 10.7331950 10.7331308 10.7330666	55 0 55 30 56 0 56 30	9.4777417 9.4783230 9.4789044 9.4794856 9.4806669 9.4806480	10.7313732 10.7313120 10.7312510 0.7311901
3 0 3 36 4 6 4 30	9.46377741 9.46435961 9.46494191 9.46552401 9.46610621	0 7329382 0 7328744 0 7328107 0 7327470	58 o 58 30 59 o	9.48122931 9.48181041 9.48239161 9.48297271 9.48355381	0.7310685 0.7310078 0.7309472 0.7308869

Seconds Minutes	x3—bx=20	bx-x3=20	Seconds Minutes	x;—b==2i	<i>x</i> −x³=2
0 0 0 30 1 0 1 30 2 0 2 30	9.4841347 9.4847156 9.4852965 9.4858773	10.7308266 10.7307665 10.7307064 10.7306465 10.7305867 10.7305269	15 30 16 0 16 30	9.5015495 9.5021296 9.5027095 9.5032896	10.729069 10.729012 10.728956 10.728899 10.7288421 10.728786
3 0 3 30 4 30 5 0	9.4876200 9.4882008 9.4887815	10.7304672 10.7304078 10.7303484 10.7302891 10.7302298	18 30 19 0	9.5050292 9.5056090 9.5061888	10.728730 10.7286740 10.7286178 10.7285620 10.7285661
5 30 6 0 6 30 7 0 7 30	9.4899429 9.4905237 9.4911042 9.4916847 9.4922652	10.7301707 10.7301117 10.7300530 10.7299943 10.7299356	21 0 21 30 22 0	9.5079280	10.7284504 10.728394 10.7283393 10.728283 10.7282286
9 30	9-4934263 9-4940067 9-4945871	10.7298770 10.7298187 10.7297603 10.7297021 10.7296440	23 30 24 0 24 30	9.5102466 9.5108261 9.5114056 9.5119851 9.5125647	10.728063
11 0 11 30 12 0	9.4963282 9.4969084 9.4974886	10.7295861 10.7295282 10.7294706 10.7294130 10.7293555	26 0 26 30 27 0	9.5131442 9.5137236 9.5143029 9.5148825 9.514616	10.7278448 10.7277905 10.7277363
13 0 13 30 14 0	9.4986492 9.4992293 9.4998095 9.5003895	10.7292980 10.7292407 10.7291835 10.7291265 10.7290695	28 o 28 30 29 c 29 30	9.5160410 9.5166203 9.5171996 9.5177789 9.5183582	10.7275743 10.7275204 10.7274667

Seconds	c3—bx=2.	x−x³= 2€	Seconds Minutes	x3—bx <u>—</u> 20	√7 x—x³ =2€
30 0 30 30 31 0 31 30 32 0 32 30	9.5183582 9.5189374 9.5195166 9.5200956 9.5206747 9.5212538	10.7274130 10.7273596 10.7273062 10.7272530 10.7271999 10.7271470	45 30 46 0 46 30 47 0	9.5363022 9.5368806 9.5374591 9.5380375	10.7258585 10.7258086 10.7257586 10.7257089 10.7256591 10.7256095
33 0 33 30 34 0 34 30 35 0	9.5224119	10.7270941 10.7270413 10.7269886 10.7269360 10.7268834	49 C	9.5397728 9.5403513 9.5409296	10.7255600 10.7255106 10.7254613 10.7254122 10.7253632
35 30 36 0 36 30 37 0 37 30	9.5253069 9.5258857 9.5264646	10.7268312 10.7267789 10.7267269 10.7266750 10.7266236	51 30 52 0	9.5426644 9.5432427 9.5438211	10.7253144 10.7252656 10.7252169 10.7251683 10.7251199
38 0 38 30 39 0 39 30 40 0	9.5282012 9.5287800 9.5293587	10,7265712 10,7265196 10,7264686 10,7264167 10,7263654	53, 39	9.5455557 9.5461340 9.5467121	10.7250719 10.7250233 10.7249752 10.7249273 10.7248794
40 30 41 0 41 30 42 0 42 30	9 5310950 9 5316735 9 5322521	10.7263142 10.7262636 10.7262121 10.7261613 10.7261106	56 30 56 30	9.5484464	10.7248317 10.7247846 10.724736 10.724689 10.7246416
43 30 44 0 44 30 45 0	9.5339880 9.5345666 9.5351451	10.7260599 10.7260094 10.7259590 10.7259087	58 3 59 3	9.5513367 9.5519147 9.5524927	10.7245947 10.7245477 10.7245007 10.7244539 10.724407

Minutes	Seconds	x3—bx=21	bx-x3=24	Seconas Minutes	x³—bx=2.	bx—x³=2
I	30	9.5536486 9.5542266 9.5548045	10.7244072 10.7243606 10.7243142 10.7242679	15 30 16 0 16 30	9.5709811 9.5715587 9.5721362	10.7230604 10.7230173 10.7229743 10.7229316
200	30 0	9.5559603	10.7242216 10.7241755 10.7241295	17 30	9.5732912	10.7228886
4	30	9.5571161 9.5576941 9.5582719	10.7240835 10.7240377 10.7239921 10.7239465	18 30 19 0	9.5744462 9.5750237 9.5756012	10.7227616 10.7227193 10.7226773 10.7226351
6 6 7	30 30 0 30	9.5600054 9.5605831 9.5611608	10.7239011 10.7238558 10.7238107 10.7237656 10.7237207	21 0 21 30 22 0	9.5767562 9.5773337 9.5779111 9.5784886	10.722593 10.722551 10.722509 10.722468 10.7224268
9	0 30 0 30	9.5628940 9.5634718 9.5640495	10.7236759 10.7236312 10.7235866 10.7235421 10.7234976	23 30 24 0 24 30	9.5807982	10.722385 10.7223444 10.7223034 10.7222624 10.722221
2	30 30 -0 30	9.5657825 9.5663602 9.56693 7 8	10.7234535 10.7234093 10.7233654 10.7233214 10.7232777	26 0 26 30 27 0	9.5831078 9.5836852 9.5842626	10.7221808 10.7221402 10.7220998 10.7220594
14	0 30 0 30 0	9.5686708 9.5692485 9.5698260	10.7232339 10.7231904 10.7231469 10.7231036 10.7230604	28 30 29 C 29 30	9.5859945 9.5865720 9.5871493	10.7219792 10.7219391 10.7218992 10.7218591

Seconds Minutes	*³—b*==2(bx-x³=2c	Minutes	bx=2i	$x-x^3=x$
30 0 30 30	9.5877266	10.7218198	45 3	9.6050443	10.7206871
31 0	9.5888812	10.7217409	46		10.7206513
31 30	9.5894585	10.7217017	46 3	0 9.6067759	10.7205799
32 0	9.5900358	10.7216626	47	0 9.6073531	10.7205443
32 30	9 5906130	10.7216236	47 3	0 9.6079303	10.7205089
33 0	9.5911903	10.7215847	48	0 9.6085076	10.7204736
33 30	9 5917676	10 7215460	48 3		10.7204384
34 0		10.7215073			10.7204033
34 30		10.7214687			10.7203685
35 °	9 593499	10.7214303	50	9.6108165	10.7203337
35 30		10.7213919		9.6113937	10.7202991
36 0		10.7213537			10.7202645
36 30	9.595231	10.7213157	51 3		10.7202301
37 3°	9.595000	10.7212777	52 2	0 9 6131254	10.7201958
STATE OF THE PARTY.	Control of the Control of the Control		90 etc. 25 512	· · · ·	10.7201616
38 c		10.7212022		9.6142799	10.7201275
38 30	9.597540	10.7211647	53 3		10.7200937
39 30 39 30	0.508604	10.7211272	54 2		10.7200599
40 0	0.599272	10.7210525	55		10.7199927
SECTION AND ADDRESS OF THE PERSON ADDRESS		A STATE OF THE PARTY AND ADDRESS OF THE PARTY	A THE REAL PROPERTY.		
40 30	9.599849	10.7210155			10.7199593
41 30	9.000420	10.7209789	56 3		10.7199260
42	0.601580	10.7209040		THE RESERVE OF THE PARTY OF THE	10.7198597
42 30	9 602158	2 10 7208684	57 3	中央 医液性性动物的现在分词形式	10.719826
Total Control	NAME OF TAXABLE PARTY.	THE REAL PROPERTY.	STATE OF THE PARTY	The second second	10.719793
43 30		10.7207954	8 2000000000000000000000000000000000000		10.7197612
S PREPARENCY		910.7207591		0 9.6212067	10.7197287
44 3		10.7207231		0 9.6217840	10.7196962
45	9.605044	3 10.720687	60	0 9 6223614	110.7196638

M

0	-	-	-	T	-	-	-
28	1)	H.	(+	R	H	H.	
~ ~	_	See 1		-	-	_	~

Seconds	3—bx=2c	7 x x ³ =- +c	Seconds	$c^3-bx=2c$	$bx-x^3=2c$
9 0 9 30 1 0 1 30 2 0 2 30	9.6229386 9.6235159 9.6240932 9.6246705	10.7196638 10.7196316 10.7195995 10.7195676 10.7195357 10.7195041	15 30 16 0 16 30	9.6402595 9.6408370 9.6414145 9.6419922	10.7187521 10.7187237 10.7186954 10.7186671 10.7186390 10.7186111
3 0 3 30 4 0 4 30 5 0	9.6258249 9.6264023 9.6269797 9.6275569	10.7194729 10.7194411 10.7194099 10.719378	18 0 18 30 19 0	9.6437247 9.6443023 9.6448798	10.7185832 10.7185555 10.7185279 10.7185006 10.7184733
5 30 6 0 6 30 7 0 7 30	9.6292886 9.629866 9.630443	10.719316 10.719285 210.719255 610.719224 910.719193	721 0 21 30 422 0	9.6466120	5 10.7184190
	9.632175 9.632752 9.633330	3 10.719163 6 10.719133 9 10.719103 4 10.719073 8 10.719043	4 23 30 3 24 0 4 24 30	9.648923 9.649500 9.650078	10.7183122 6 10.7182858 10.718259 10.718233
	9.635062 9.635640 9.636217	2 16.719013 6 10.718984 0 10.718954 4 10.718925 8 10.718896	2 26 6 8 26 30 4 27	9.652389 9.652966 9.653444	4 10.718181 1 10 718155 10 718129 7 10.718204 4 10.718179
13 30 14 0 14 30	9.637949 9.638527 9.639104	3 10.718867 8 10.718838 3 10.718809 6 10.718780	1 28 3 32 28 3 13 29	9.654700 9.655277 9.655855 9 656433	110.718053 910.718028 810.718003 610.717978

28 DEGREES.							
Seconds Minutes	(x³—bx=2c	bx-x==2i	Seconds	$x^3-bx=2c$	bx—x³==2		
30 0 30 30 31 0 31 30 32 0	9.6570114 9.6575892 9.6581671 9.6587450 9.6593229 9.6599008	10.7179292 10.7179047 10.7178804 10.7178561	45 30 46 0 46 30 47 0	9.6749324 9.6755108 9.6760892 9.6766676	10.717271 10.717250 10.717230 10.717209 10.717189 10.717169		
33 0 33 30 34 0 34 30 35 0	9.6610566 9.6616345 9.6622125	10.7178080 10.7177842 10.7177605 10.7177369 10.7177134	48 30 49 0 49 30	9.678403° 9.6789816 9.6795601	10.7171486 10.7171290 10.7171092 10.7170899 10.7170690		
35 30 36 0 36 30 37 0 37 30	9.6639465 9.6645246 9.6651027	10.7176901 10.7176669 10.7176438 10.7176207 10.7175980	51 0 51 30 52 0	9.6812959 9.6818745 9.6824531	10.717050 10.717031 10.717012 10.716993 10.716974		
38 0 38 30 39 0 39 30	9.6668369 9.6674151 9.6679932	10.7175753 10 7175527 10.7175303 10.7175080 10.7174858	53 .30 54 0 54 30	9.6841892 9.6847679 9.6853466	10.716955 10.716936 10.716918 10.716900 10.716881		
10 30 11 0 11 30 12 0 12 30	9 6697270 9 6703059 9.6708841	10.7174638 10.7174410 10.7174201 10.7173985 10.7173770	56 0 56 30 57 0	9.6870832 9.6876620 9.6882409	10.716863 10.716845 10.716827 10.716810 10.716792		
43 0 43 30 44 0 44 30	9.6726190 9.6731973 9.6737756	10.7173555 10.7173344 10.7173133 10.7172922	58 30 59 0 59 30	9.6899777 9.6905567 9.6911357	10.7167757 10.7167576 10.716740 10.716723		

Seconds Minutes	x³—bx=20	'x-x³=2	Minutes	$x^3-b = 0$	bx-x ⁴ =2
0 0 0 30 1 0 1 30 2 0 2 30	9.6922938 9.6928730 9.6934520 9.6940311	10.7167068 10.7166900 10.7166734 10.7166570 10.7166407	15 30 16 0 16 30	9.7096784 9.7102584 9.7108383 9.7114182	10.7162620 10.716250 10.7162370 10.7162253 10.7162130 10.7162000
3 0 3 30 4 0 4 30 5 6	9.6957686 9.6963478 9.6969271	10.7166083 10.7165924 10.7165766 10.7165609 10.7165453	18 30 19 c	9 7131585 9 7137387 9 7143188	10.7161888 10.7161769 10.7161651 10.7161536 10.7161422
5 30 6 0 6 30 7 0 7 30	9 6986651 9.6992445 9.6998240	10.7165300 10.7165147 10.7164995 10.7164844 10.7164696	21 0 21 30 22 0	9.7166398	10.7161309 10 7161196 10.7161086 10 7160986 10 7160862
8 0 8 30 9 0 9 30	9.7015623 9.7021419 9.7027214	10.7164549 10.7164403 10.7164259 10.7164116 10.7163974	23 30 24 0 24 30	9.7183811 9.7189614 9.7195419 9.7201223 9.7207029	10.7160763 10.7160658 10.7160555 10.7160453
1 30	9.7044602 9.7050398 9.7056196	10.7163833 10.7163694 10.7163556 10.7163420 10.7163285	26 0 26 30 27 0	9.7212835 9.7218642 9.7224448 9.7230255 9.7236062	0.7160253 10.7160154 10.7160058 0.7159963
3 0 3 30 4 0 4 30	9.7067791 9.7073589 9.7079387	0.7163151 0.7163019 0.7162887 0.7162758	28 o 28 30 29 o	9.72418691 9.72476771 9.72534851 9.72592931 9.72651031	0.7159777 0.7159687 0.7159597 0.7159509

Seconds Minutes	x3-bx=20	bx-x3=2	Minutes	$x^3 - bx = 2c$	7x-x3=20
30 0 30 30 31 0 31 30 32 0 32 30	9.7265103 9.7270913 9.7276724 9.7282533 9.7288344 9.7294155	10.7159337 10.7159252 10.7159169 10.7159088	45 30 46 0 46 30 47 0	9.7445376 9.7451199 9.7457021 9.7462844	10.7157475 10.7157432 10.7157391 10.7157351 10.7157312 10.7157312
33 0 33 30 34 0 34 30 35 0	9·7299966 9·73°5777 9·7311590 9·7317402 9·7323215	10.7158930 10.7158853 10.7158778 10.7158704 10.7158631	48 30 49 0 49 30	9·7474491 9·7480315 9·7486140 9 7491964	10.7157239 10.7157205 10.7157172 10.7157140 10.7157110
35 30 36 6 36 30 37 0 37 30	9.7334842 9.7340655 9.7346470	10.7130354	50 30 51 0 51 30 52 0 52 30	9.7503615 9.7509432 9.7515267 9.7521095	10.7157083
39 30	9.7303910	10.7158224 10.7158162 10.7158100 10.7158640 10.7157081	53 0 53 30 54 0	9.7532751 9.7538579 9.7544408 9.7550238 9.7556068	0.7156963 0.7156943 0.7156924 0.7156908
1 30	9·73930001 9·73988171 9·74046351	0.7157924 0.7157868 0.71578155 0.71577635 0.71577125	5 30 6 0 6 30	9:7561898 I 9:7567730 I 9:7573561 I 9:7579393 I 9:7585225 I	0.7156878 0.7156866 0.7156855 0.7156845
3 0 0 3 30 4 0 0 4 30	9.7416273 I 9.7422093 I 9.7427913 I	0.71576615 0.71576135 0.71575655 0.71575205	8 o 6 8 30 9 o 6 9 30	9.7591058 10 9.7596891 10 9.7602725 10 9.7608559 10	0.7156830 0.7156825 0.7156821 0.7156819

Seconds Minutes	x3—bx=2c	b x —x³=2c	Seconds Minutes	x - bx = 2c	b x—x³ =≥c
0 0 0 30 1 0 1 30 2 0	9.7620229 9.7626065 9.7631901 9.7637738	10.7156818 10.7156819 10.7156821 10.7156825 10.7156830 10.7156837	15 30 16 0 16 30 17 0	9.7795524 9.7801375 9.7807227 9.7813080	10.7157486 10.7157532 10.7157579 10.7157627 10.7157676 10.7157729
3 0 3 30 4 0 4 30 5 0	9.7655251 9.7661090 9.7666929	10.7156845 10.7156855 10.7156866 10.7156879 10.7156892	18 30 19 0	9.7830640 9.7836496 9.7842351	10.7157782 10.7157836 10.7157892 10.7157949 10.7158008
5 30 6 0 6 30 7 0 7 30	9.7684449 9.7690290 9.7696 2 32	10.7156908 10.7156925 10.7156944 10.7156964 10.7156986	20 30 21 0 21 30 22 0 22 30	9.7859922 9.7865779 9.7871636	10.7158068 10.7158130 10.7158195 10.7158260 10.7158327
8 30 9 30 9 30	9.7713661	10 7157009 10.7157033 10.7157058 10.7157085 10.7157114	24 0 24 30	9.7889215 9.7895076 9.7900937	10.7158395 10.7158465 10.7158536 10.7158609 10.7158683
10 30 11 0 11 30 12 0	9.7737039 9.7742885 9.7748732 9.7754580	10.7157145 10.7157177 10.7157210 10.7157244 10.7157281	25 30 26 0 26 30 27 0	9.7918524 9.7924387 9.7930252	10.7158759 10.7158836 10.7158915 10.7158996 10.7159078
13 0 13 30 14 0 14 30 15 0	9.7772123 9.7777972 9.7783822	10.7157319 10.7157359 10.7157400 10.7157442 10.7157486	28 30 29 30 29 30	9.7947848	10.7159162 10.7159246 10.7159332 10.7159420 10.7159510

Minutes	Seconds	x3—bx=2c	$bx-x^3=2\epsilon$	Minures	Seconds	x³—bx <u>—</u> 2c	bx—x³=2c
30 30 31 31 32 32	30 30 30 30	9.7965450 9.7971318 9.7977187 9.7983057 9.7988928 9.7994799	10.7159510 10.7159602 10.7159695 10.7159789 10.7159884 10.7159983	45 46 46 47	3000	9.8147670 9.8153560 9.8159449 9.8165340	10.7162930 10.7163068 10.7163208 10.7163349 10.7163492 10.7163638
33 33 34 34 35	0 30 0 30	9.8000670 9.8006542 9.8012416 9.8018288 9.8024162	10.7160082 10.7160182 10.7160284 10.7160388 10.7160494	48 49 49	30	9.818301 3 9.8188906 9.8194799	10.7163785 10.7163933 10.7164082 10.7164233 10.7164386
35 36 36 37 37	30 30 0 30	9.8035913 9.8041789 9.8047666	10 7160601 10.7160709 10.7160819 10.7160930 10.7161043	51 51 52	30	9.8212484 9.8218380 9.8224278	10.7164546 10.7164696 10.7164854 10.7165014 10.7165174
38 38 39 39 40	0 30 0 30	9.8065300 9.8071180 9.8077059	10.7161158 10.7161274 10.7161392 10.7161511 10.7161632	53 54 54	30	9.8241974 9.8247874 9.8253054	10.7165566
40 41 41 42 42	30 30 30	9.8094703 9.8100585 9.8106466	10.7161755 10.7161879 10.7162005 10.7162133 10.7162262	56 56 57	30	9.8265578 9.8271481 9.8277385 9.8283290	10.7166174 10.7166345 10.7166516 10.7166694
43 43 44 44 45	30 0 30	9 8124122 9 8130009 9 8135895	10.7162393 10.7162524 10.7162657 10.7162793	58 59	30	9.8301006 9.8306913 9.8312821	10.7167051 10.7167232 10.7167413 10.7167597 10.7167782

Sec			M.	8		
onds	x3—bx=20	bx—x³=>c	lutes	spuc X	-0x=2c	> x - x ¹ =2
0		10.7167782		c	.8496357	10.717410
0 30 I 0	9 0324041	10.7167969	15			10.717434
1 30	9.8336463	10.7168347	16			10.717482
2 0	9.8342375	10.7168539	17	0	.8520097	10.717506
2 30	9.8358287	10.7168733	17.	30	.8526033	10.717530
3 0		10.7168928	18			10.717555
3 30	PROVED BY STORES TO SERVE WAS ENGINEED BY	10.7169124		30	0.8537908	10.717580
4 30	9.8371046	10.7169322	10	30	0.8540787	10.717605
5 0		10.7169725		0	.8555729	10.717655
5 30	0.8382778	10.7169928	20 2	30	.8561671	10.717680
5 30 6 0		10.7170133		0 9	.8567614	10.717706
6 30	9.8395616	10.7170340	21	30	8573557	10.717731
7 0		10.7170548		Salar Francisco		10.717757
7 30	Contract of				11/2 7 24 16 75 4	123 14 5 9K1C
8 30		10.7170969		TESTER SERVICES		10.717810
8 30		10.7171183		30	9.8603287	10.717863
9 30		10.7171615		30	9.8609239	10.717889
0 0	9.843706	10.7171833	25	0	9 8615182	10.717916
0 30	9.844299	10.7172053	25	30	9.862113	10.717943
I C	9.844892	10 7172274	26	0	9.0027007	10.717071
1 30		10.7172498		30	4.86 38000	10.717998
2 30	1 0 11	10.717272		30	9.864494	10.718054
	A CONTRACTOR OF THE					10.718081
13 30	9.847856	10.717317	28	30	9.865685	10.718110
14 (9.848449	3 10.717364		C	9.866281	2 10.718138
14 30	9.849042	110.717387	129	30	9.866876	910.718166
15	9.849635	110 717410	930	101	9.867472	7110.718195

	200	D	D	~	D	E	F	S.
- 3	1	U	L	U	11	L	L	n.

veconds Minutes	x³—bx=20	bx-x3=2c	Seconds Minutes	x³—b x=2 c	bsc+x³=20
30 0 30 30 31 0 31 30 32 0 32 30	9.8686686 9.8686646 9.8692607	10.7181955 10.7182244 10.7182534 10.7182825 10.7183118 10.7183414	45 30 46 0 46 30 47 0	9.8859895 9.8865884 9.8871873 9.8877863	10.7191367 10.7191709 10.7192052 10.7192397 10.7192743 10.7193092
33 0 33 30 34 0 34 30 35 0	9.8716460 9.8722426 9.872839	10.7183711 10.7184010 10.7184310 10.7184713 10.7184916	48 30 49 0	9.8895839 9.8901833 9.8907829	10.7193443 10.7193795 10.7194149 10.7194505 10.7194862
35 30 36 0 36 30 37 0 37 30	9.8746298 9.8752269 9.8758241	10.7185222 10.7185530 10.7185839 10.7186149	51 30 52 0	9.8925822 9.8931821 9.8937822	10.7195221 10.7195582 10.7195945 10.7196310 10.7196677
38 0 38 30 39 0 39 30 40 0	9.8776150 9.8782131 9.8788100	10.7186777 10.7187093 10.7187411 10.7187731 10.7188054	54 0 54 30	9.8955828 9.8961833 9.8967838	10.7197045 10.7197416 10.7197789 10.7198162 10.7198537
40 30 41 0 41 30 42 0 42 30	9.8806042	10.7188377 10.7188702 10.7189030 10.7189358 10.7189688	56 30 57 0	9.8985860 9.8991870 9.8997880	10.7198916 10.7199296 10.7199678 10.7200060 10.7200446
43 30 43 30 44 30 45 6	9.8829968 9.883595 9.884193	3 10.7190020 10.7190355 10.7190691 10.7191028	58 0 58 30 59 0	9.9015919 9.9021935 9.9027950	10.7200833 10.7201221 10.7201611 10.7202004 10.7202398

9.9148492 10.7210244 24

9.9154532 10.7210676 25

9.9160571 10.7211109 25

9.916661310.721154526 9.917265410.721198226 9.917869810.721242227

9.9184741 10.7212863 27

9.9190787 10.7213307 28 9.9196832 10.7213752 28

9.9202880 10.7214200 29

9.9268929 10.7214649 29

9.9214979 10.721 5099 30

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;³—bx=2≀	h x—x³= 2¢	onds	a^3 —- $bx=2$	$x-x^3=2c$
9.9039984 9.9046004 9.9052024 9.9058045	10.7202398 10.7202794 10.7203192 10.7203592 10.7203993	15 30 16 0 16 30	9.9221030 9.9227082 9.9233135 9.9239190	10.7215099 10.7215552 10.7216006 10.7216463 10.7216922 10.7217382
9.9070091 9.9076114 9.9082140 9.9088167	10.7204803 10.7205210 10.7205620 10.7206031 10.7206443	18 0 18 30 19 0 19 30	9.9251304 9.9257361 9.9263419 9.9269480	10.7217844 10.7218309 10.7218775 10.7219244 10.7219714
9.9106254 9.9112285 9.9118317	10.7206858 10.720727 10.720769 10.720811 10.720853	21 0 321 30 322 0	9.9287668	10.7220186 10.7220660 10.7221136 10.7221614 10.7222094
9.9136418	10.720896 10.720938 10.720981	6 23 30	9.931800	10.7222575 10.7223059 10.7223544

30

30

30

0 30

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30 9.9330148 10.7224032

0 9.9336222 10.7224522

9.9342296 10.7225014 9.9348372 10 7225508

9.9354448 10.7226004

9.9360526 10.7226502 9.9366605 10.7227001

9.9372686 10.7227502 9.9378768 10.7228006

9.9384851 10.7228511 9 9390935 10.7229019

Minutes	n³—bx=2	$abx-x^3=2a$	Seconds Minutes	$x^3-bx=2c$	bx-x3=21
30 G	9.939702		45 C		10.7245747
	9.940310	JEA HARACE	46 0		10.7246893
31 30	9.941528	5 10.7231069	46 30	9.9598552	10.7247470
CHECK SHAPE STATE	9.942137	5 10.7231507		9.9604680	10.7248048
32 3	9.942746	6 10.7232106	47 30	9.9010811	10.7248629
	9.944355	10.7222627	48		10.7249211
33 3	9.944965	410.7223150	48 30		10.7249796
62000000000000000000000000000000000000	9.944575	10.7233674	49		10.7250382
34 39	9.945184	710.7234203	49 30		10.7250972
35 (9.945/94	4 10.7234732	50 0	9.904148	10.725130
35 3		410.7235264			10.7252145
360		4 10.7235796			10.7252750
		610.7236332			10.7253347
37 37 3		9 10.7236860 3 10.7237400		9 9000040	10.7253946
	9.940043	3 100 / 23 / 400	52 30	A STATE OF S	CONTRACTOR CONTRACTOR
10		910.723795		9.967833	10.7255151
38 3	SEED TO SEED TO SEE AND ADDRESS OF THE PARTY	5 10.723849			10.7255757
	9.950677	3 10,7239041	54	9.9090020	10.7256365
THE PERSONAL PROPERTY.	0 9.951288	2 10,7239588 4 10,724013	54 3	0 9.9702930	10.7256975
S C L V	9.93.1899	410.724013	132	9.9/0293	10./25/500
B08620000000		5 10.724068			2 10.7258200
A CHECK THE SECTION	0 9.953121	910.724124	3 56	9.971523	10.7258816
都是世纪550%		3 10.724179			10.726043
\$465327000F7.5		910.724235			10.726005
42 3	9.934950	7 10,724291	57 3	9.9/33/0	10.7260677
		610 724347		0 9.973986	510.726136
		5 10.724404		0 9.974602	010.726192
SEC. 25 (2000)		5 10.724460		0 9.975218	8 10.726255
Sc.80460000	9.957404	8 10.724517	159 3	0 9.975835	2 10.726318
45	01 9.950017	1 10.724574	100	0 9.976451	7 10-726382

Seconds Minutes	$x^3-bx=2$.	5x-x³=2€	Seconds Minutes	x³bx=-;	1x-x3=21
0 0 0 30 1 0 1 30 2 0 2 30	9.9770682 9.9776850 9.9783019	10.7265094 10.7265733 10.7266375	15 30 16 0 16 30	9.9956352 9.9962564 9.9968778 9.9974993	10.7283821 10.7284522 10.7285224 10.7285930 10.7286637 10.7287347
3 0 3 30 4 30 5 0	9.9807711 9.9813887 9.9820064	10.7267664 10.7268313 10.7268963 10.7269616 10.7270261	18 30 19 0	9,9987427 9 9993647 9,9999869 10,0006092 10,0012316	10.7288773 10.7289489 10.7290208
\$ 30 6 30 7 0 7 30	9.9838607 9.9844790 9.9850975	16.7270918 16.7271587 16.7272248 16.7272911 16.7273576	21 0 21 30 22 0	10.0018542 10.0024776 10.0030999 10.0037236 10.0043463	10 7292378 10 7293105 10 7293834
8 6 8 36 9 6 9 30	9.9869540 9.9875730 9.9881923	10.7274243 10.7274914 10.7275586 10.7276261 10.7276937	23 30 24 0 24 30	10.0049697 10.0055932 10.0062169 10.0068407 10.0074647	10,7296038 10,7296777 10,7297519
10 30 11 0 11 30 12 0	9.9900511 9.9906709 9.9912908	10.7277615 10.7278295 10,7278979 10.7279664 10.7280352	26 0 26 30 27 6	10.0080888 10.0087132 10.0093378 10.0099626 10.0105873	10.7299756 10.7300506 10.7301258
13 0 13 30 14 0 14 30	9.9931517 9.9937723 9.9943931	10.7281041 10.7281733 10.7282427 10.7283123 10.7283821	28 36 29 6 29 36	10.0112123 10.0118374 10.0124628 10.0130882 10.0137139	10.7303530 10.7304292 10.7305056

Seconds Minutes	x³—bx=≥c	bx—x1==21	Seconds Minutes	v³—bx=2c	bx—x³=2c
30 30 31 0 31 30 32 0	10.0137139 10.0143397 10.0149657 10.0155918 10.0162180		45 30 46 0 46 30 47 0	10.0325609 10.0331917 10.0338227 10.0344540 10.0350854 10.0357170	10.7330745 10.7331587 10.7332432 10.73333278
33 30 34 0 34 30	10.0174711 10.0180979 10.0187250 10.0193521 10.0199794	10.7310471 10.7311253 10.7312038 10.7312825 10.7313614	48 30 49 0 49 30	10.0363488 10.0369807 10.0376129 10.0382452 10.0388777	10.7335833 10.7336689 10.7337548
36 6 36 30	10.0206068 10.0212345 10.0218622 10.0224902 10.0231183	10.7315201 10.7315998 10.7316798	51 0 51 30 52 0	10.0395103 10.0401432 10.0467761 10.0414093 10.0420427	10.7340140 10.7341009 10.7341881
38 30 39 0 39 30	10.0237466 10.0243751 10.0250037 10.0256326 10.0262616	10.7319209 10.7320017 10.7320828	53 30 54 0	10.0426762 10.0433100 10.0439440 10.0445781 10.0452123	10.7344508 10.73453 88 10.7346273
41 0 41 30 42 0	10.0268907 10.0275200 10.0281495 10.0287793 10.0294091	10.7324276 10.7324095 10.7324917	56 0 56 30 57 0	10.0458468 10.0464814 10.0471162 10.0477512 10.0483865	10.7348938 10.7349832 10.7350728
43 30 44 0 44 30	10.0300391 10.0306693 10.0312997 10.0319302 10.0325609	10.7327401 10.7328233 10.7329068	58 30 59 0 59 30	10.0490219 10.0496575 10.0502932 10.0509291 10.0515652	10.7353431 10.7354336 10.7355245

Minutes	20 x1 − bx = 20	bx-x3=20	Seconds Minutes	x:bx=20	bx-x3=20
I I 2	10.0522016 10.0528381 0 10.0534748	1-4 /35/905	15 30 16 0 16 30	10.0713804 10 0720227 10.0726652 10 0733086	10.7384667 10.7385657 10.7386651 10.7387646 10.7388644 10.7389645
4	10.0553861 10.0560235 0 10.0566611 10.0572990 0 10.0579371	10.7362603 10.7363535 10.7364468	18 30 19 0	10.0752374 10.0758800 10 0765246	10.7390649 10.7391656 10.7392665 10.7393676 10.7394690
6 3	0 10.0585752 0 10.0592136 0 10.0598522 0 10.0604910 0 10.0611299	10.7367284 10.7368228 10.7369174	21 30 21 30	10.0784571	10.7395708 10.7396727 10.7397749 10.7398773 10.739801
83	0 10.0617691 0 10.0624085 0 10.0630481 0 10.0636879 0 10.0643278	10.7372029 10.7372985 10.7373945	23 30 24 0 24 30	10.0823276	10.7400831 10.7401865 10.7402900 10.7403939 10.7404979
10 3 11 11 3	0 10.0649679 0 10.0656082 0 10.0662488 0 10.0668896 0 10.0675305	10.7375871 10.7376838 10.7377808 10.7378780	25 30 26 0 26 30 27 0	10.0849122 10.0855587 10.0862056	10.7406023 10.7407070 10.7408119 10.7409172 10.7410226
13 3 14 14 3	0 10.0681716 0 10.0688130 0 10.0694546 0 10.0700963 0 10.0707383	10.7381712 10.7382694 10.7383679	28 30 29 0 29 30	10.0881474 10.0887951 10.0894430	10.7411283 10.7412344 10.7413407 10.7414472

Seconds Minutes	x3—bx=26	b ≈—x³ =≥2¢	Seconds Minures	x3—bx <u>—</u> 2c	bx—x³==2¢
30 30 31 0 31 30 32 0	10.0900912 10.0907395 10.0913881 10.0920369 10.0926859	10.7415540 10.7416611 10.7417685 10.7418761 10.7419839 10.7420921	45 30 46 0 46 30 47 0	10.1102916 10.1109469 10.1116023	10.7448881 10.7450036 10.7451193 10.7452355 10.7453519 10.7454686
33 30 34 0 34 30	10.0939846 10.0946342 10.0952840 10.0959340	10.7424184	49 30 49 30	10.114226	10.7455855 10.7457027 10.7458202 10.7459381 10.7460563
36 36 36 36	10.0972348 10.0978856 10.0985365 10.0991877	10.7428572 10.7429677 10 . 7430785	51 30 51 30	10.117511	10.7461747 10.7462933 10.7464124 310.7465317 510.7466513
38 30 39 30	10.1004907 10.1011425 10.1017945 10.1024468	10.7434123 10.7435241 10.7436362	E2 20	10.120802	10.7467712 710.746891 710.747011 910.747132 310.747253
41 · 30 42 · 0	10.1037520 010.1044050 010.1050581 010.1057114	10.7439742	55 30 56 30 57 0	10.1234400 10.124099 10.1247600 10.125420	10.7473750 10.7474966 10.7476186 4 10.7477406 10.7478632
43 B 44 G 44 30	10.1070186 10.1076730 10.1083277 10.1089818	10.7445432 10.7446578 10.7447728	58 30 59 30	10.127202	8 10.7479862 9 10.7481093 3 10.748232 9 10.748356 7 10.748480

35 DEGREES.											
Minutes	Seconds	#3	bk=2	bx -x	' ⇒2¢	Minutes	Seconds	% 3	bx=2	(bx-	-x³==2
I I 2	30	10.1	300497 307120 313740 1320374	10.748 10.748 10.748 10.748 10.748	6049 7296 8546 9798	15 16 16 17	30	10.1 10.1 10.1	50028 50698 51368 52038	1 10.7 0 10.7 2 10.7 7 10.7	523441 524777 526116 52745 52880 53015
3 3 4	30	10.1	333636 34027 34691	10.740 3 10.740 10.740 2 10.740 6 10.740	2311 3573 34839 6106	18 18 19	30	10.1 10.1	53380 54051 54723	4 10.7 6 10.7 0 10.7	53150 53286 53421 53558 53694
56677	30	10.	137348 138013 138679	10.749 8 10.750 1 10.750 7 10.750	99928 91208 92491	2I 2I 22	30	10.1	57411 58084 58757	6 10. 5 10.	53831 53968 54105 54243 754381
8 9 9 10	30	10.	140676 141342 142019	5 10.750 6 10.750 9 10.750 4 10.75	06358 07653 08852	23 24 24	30	10.1	160778 161452 162127	5 10. 7 10. 1 10.	754520 754658 754797 754937 755977
10 11 11 12	30	10.	144678 145346	3 10.75 6 10.75 1 10.75 0 10.75	12860 14177 15492	26 26 27	30	10.	164152 16482; 16550	710.	755217 755357 755498 755639 755780
13 13 14 14	30	10.	147351 148019 148686	5 10.75 0 10.75 10.75 11 10.75	2077	2 2 8 9 2 9	30	10.	16753: 168200 16888	26 10. 96 10. 97 10.	755922 756064 756206 756349 756492

		A COMPANY	Service Division	200 May 100		A-17	PARTY NO.	Sec. 2019.
44620	STATE OF THE	D	銀体の製	100.0	907 P 35	副2 四角	BY SUR	560 a 350
0	and the	888 EB 1	200 4 (200			55 E PHO	87 a./93	BN 988
	- 1000			-			-	~ .

Seconds Minutes	x³—bx=2€	bx-x³=2c	Seconds Minutes	c3— bix=2c	$7x - x^3 = 2$
30 30 31 0 31 30	10.1695641 10.1702419 10.1709199 10.1715982 10.1722768 10.1729556	10.7500355 10.7567791 10.7569232 10.7570676	45 39 46 9 46 39 47 0	10.1900209 10.1907073 10.1913941 10.1920810 10.1927683 10.1934559	10.7610 92 10.761246 10.761401 10.761555
33 0 33 30 34 0 34 30	10.1736348 10.1743143 10.1749941 10.1756740 10.1763542	10.7573572 10.7575025 10.7576481 10.7577942	48 °0 48 30 49 °0 49 30	10.1941438 10.1948321 10.1955206 10.1962094 10.1968986	10.761866 10.762011 10.762177 10.762334
36 0 36 30	10.1770349 10.1777158 10.1783969 10.1790783 10.1797600	10 7582342 10.7583817 10.7585295	51 0 51 30 52 0	fo.1975880 10.1982777 10.1989677 10.1996581 10.2003488	10.762805 10.762963 10.763121
38 30 39 0	10.1804421 10.1811244 10.1818069 10.1824898 10.1831731	10.7589746 10.7591237 10.7592730	53 30 54 0 54 30	10.2010398 10.2017310 10.2024225 10.2031144 10.2038067	10.763598. 10.763758: 10.7630186
41 30	10.1838565 10.1845402 10.1852242 10.1859185 10.1865932	10.7597234	56 30 57 9	10.2044992 10.2051921 10.2058852 10.2065786 10.2072724	10.764400 10.764561 10.764723
43 39 44 30 44 30	10.1872782 10.1879634 10.1886486 10.1893348	10.7603286 10.7604808 10.7606333 10.7607862	58 0 58 30 59 0 59 30	10.2079665 10.2086609 10.2093557 10.2100507 10.2107460	10.765210 10.765374 10.7655376

Minutes	Seconds	x3	-bx=	=20	bx-	⊤x³		6	Minutes	Seconds	X3-	bx		20	·x-	-x³	-20
0	0	10.2	107	460	10.	165	702	OI	5								7969
0	30	10.2	2114	417	10.7	765	866	531	15	30	10.	232	246	41	10.7	779	9727
I	0	10.2	2121	378	10.	766	031	101	16	0	10.	23.	317	100	10.7	71	1488
I	30	10.2	2128	331	10.	766	197	71 1	16								3254
2	0	10.2	135	307 277	TO.	766	50	5	1	30	IO	22	520	100	10	771	6796
4		200	NAME OF TAXABLE PARTY.	National Company	Table 1		Maria Maria	100	NAME OF TAXABLE PARTY.	2003 STR	-		HATELANDIS	20000	-	COLUMN TO SERVICE STATE OF THE PARTY OF THE	
3	0	10.2	149	249	10.	766	69:	37	18	0	10.	23.	599	973	10.	771	857
3	30	10.2	2150	225	10.	766	0860	03	10	30	10.	23	070	149	TO.	172	2035
4	0	10.2	2163	3205	10.	767	1027	73	19								2214
4				1172													23930 2572
5	Constant l		CONTRACTOR	7172	-		Steel Cold		Name of		-	ರ	3	ار ا	-	3.45-	
5				1161							10.						27520
6.	0	10.2	2191	1154	10.	767	7699	90	21	0	10.	.24	024	485	10.		2932
6				8150							10.				Section 1		3112
7	C	10.	220	5150	10	701	203	70	22	0	10	24	16	084	10	77	3293
7		DEC TANK	SECTION OF STREET	2152	STATE OF THE PARTY	Market No.	N 192 11 11 11	200 EAS	STANDAY	Of Parlicularies	Town Street	120000 MI	TOMESTA		E 25000000	S200000	3474
8				9158						O	10	.24	30	897	10.	773	3656
8	30	10.	2220	6166	6 10.	.768	854	70	23	30	10	-24	.38	009	10.	773	3838
9	C	10.	223.	3178	10	76	071	78	24	0	10	.24	45	124	10.		4021
9	30	10.	224	0193	310	76	088	09	24	30	10	.24	52	243			4204
10		10.	224	7212	10	-/0	900	V4	45		110	.24	59	300	10.	11.	4387
10				4234													4571
11	C	010.	226	1259	910	.76	940	47	26	0	010	.24	73	621	10.	774	4755
II	30	010	226	8288	8 10.	.760	957	74	26	30	0,10	.24	80	753	3 10.	774	4939
12				5320						C	10	.24	87	890	010.	77	5125
12	30	10.	228	2356	10	.76	992	38	27	30							5310
13		10.	228	9396	5 10	77	200	76	28	C	10	.25	02	17	10.	77	5495
13	30	10	229	6438	8 10.	.779	027	18	28	30	OIC	0.25	509	322	2 10.	77	5682
14	C	10.	230	3484	4 10	.779	044	64	29	C	OIC	1.25	;16	473	310.	77	5868
14	30	10.	2310	0533	3 10.	.779	062	15	29	30	OIC	25	23	620	810.	774	6055
15				7585						. 0	IO	.25	30	788	dio.	77	6243

Minutes	Seconds	x³—åx=2€	bx-x3=2	Minutes	Seconds	x3—b	×=2ι	bx-	x³=20
0	0	10.2530788	10.7762432	45					320616
0	30	10.2537950	10.7764310	45					32262
I		10.2545110	10.7766192	40					324634
2		10.2559458		47	ಂ	10.27	76415	10.7	326646 32866
2	30	10.2566635	10.7771865	47	30	10.27	83707	10.7	82866 83069
33	0	10.2573816	10.7773764	48					832710
13	30	10.2581000	10.7775668	48					83475
14			10.7777576						836790
14 15			10.7779488		30	10.28	20228	10.7	838831 840876
ERECT	NAME OF		10.7783323	100	2000	0.004000	10000	120000000000000000000000000000000000000	
16			10.7785247		30	10.28	34862	10.7	84498
6	30	10.2624186	10.7787176	51	30	10.28	42186	10.7	84704
37	0	10.2631396	10.7789108	52	O	10.28	49514	10.7	84910
37	30	10.2638616	10.7791046	52	30	10.28	56846	10.7	85117
38	0	10.2645828	10.7792988	53			64183		
38	30	10.2653049	10.7794933	53			71523		
39			10.7796883				78867 86216		
10			10.7798837		6	10.28	93569	10.7	86158
10	1/20	The Control of the Co	10.7802758	4	20	10.20	00926	TQ.7	86368
1	0	10.268921	10.7804725	56	3		08287		
11	30	10.2696469	10.7806696	156	30	10.29	15652	10.7	86788
12	C	10.2703712	10.7808672	57			23022		
42	20 A 100	CONTRACTOR DESCRIPTION	10.7810652	100 Mg	No.	1	THE PERSON NAMED IN	100000	
43	C	10 27 18220	10.7812636	58	, ,	10.20	37771	10.7	87422
43	30	10.272548	10.7814625	50	30	10.20	145153	10.7	87635 87847
44 44	20	10.274001	610 7816618	150	30	0.10.20	59929	10.7	88061
45	3	10.274728	10.7820616	660		10.20	67324	10.7	88274

UZ 1		1011	HA TON	W. Carlotte	€ , 1, 10 mg
Minutes .	x3—bx=2.	5x-x3=12	Seconds Minutes	x3—l=21 TCO128 pos	
0 30 1 0	10.2974722 10.2982124 10.2989531	10.7882748 10.7884890 10.7887036 10.7889187	15 30 16 0 16 30	10.3198691 10.3206226 10.3213764	10.7949073 10.7951359 10.7953650 10.7955946 10.7958248
2.30	10.3004358	10.7891343 10.7893504 10.7895670	17 30 18 d	10.3228856	10.7960554
3 30	10.3019202	10.7897840 10.7900014 10.7902193 10.7904377	19 30 19 30	10.3243967 10.3251526 10.3259096 10.3266667	10.7967501
6 3	10.3056383	10-7906566 10-79687 5 9 10-79109 58 10-7913166	20 30 21 0 21 30	10-3274242 10-3281822 10-328940 10-329699	10.797449 10.7976838 10.7979184
7 3 8 8 3	0 10.3078750 0 10.3086217 0 10.3093680	10.7917582	23 C 23 3C	10.3304591	10,798389
93	010.311611	10.7922023 10.7924250 10.7926482 510.792871	24 30	10.3327406 10.3335016 10.3342636	10.799337
1100 11 3	010/313108 010/313857 010-314607	10.7930966 10.793320 10.7935466 910.793771	26 30 26 30 27 0	10.335788 10.336552 10.3373150 10.338080	10,800053 10,800293 10,800533
3 3	ore 316859	10.793997 10.7942244 10.794451 10.7946792	28 30	10.338844 10.339610 10.349375	10.801257
4 3	0 10 319116	10.7949073	30	10.341908	10.801986

#3-bx=20	5x-x3=20	Seconds Minutes	.³—bx=20	2x-x=2x
30 0 70.3419083 30 30 10.3426756 31 0 10 3434432 31 30 10.344211 32 0 10.344979	10.8022306 10.8024752 10.8027203 10.8029659	45 30 46 8 46 38 47 9	10.3659233 10.3667064 10.3674898 10.3682738	10.8095427 10.8098033 10.8100644 10.8103260 10.8105882
32 30 10.3457491 33 0 10.3465187 33 30 10.3472888 34 0 10.3481593 34 50 10.3486364 35 0 10.3496021	10.8034587 10.8037060 10.8038537 10.8041020	48 0 48 30 49 0 49 30	10.3698434 10.3706290 10.3714152	10.8108509 10.81111142 10.8113780 10.8116424 10.8119075 10.8121731
35 39 10.3503742 36 910.3511466 36 36 10.3519166 37 910.352693 37 3010.353467	10.8057002 10.8049501 10.8052005 10.8054515	50 30 51 6 51 30	10.3737768 10.3745650 10.3753538 10.3761432	10.8124394 10.8127062 10.8129736 10.8132416 10.8135101
38 0 10/3542423 38 30 10/3550174 39 0 10/355793 39 30 10/356569 40 0 10/3573455	10.8059551 10.8062078 10.8064611	53 0 53 30 54 0	10.3777236 10.3785147 10.379306 10.3800984	10.8137792 10.8140489 10.8143191 10.8145900 10.8148615
40 30 10 3581231 41 0 10 358900 41 30 10 359679 42 0 10 3604578 42 30 10 3612376	10.8072239 10.8074793 10.8077353 10.8079918	55 30 56 30 56 30	10.3824780	10.8151337 10.8154064 10.8156796 10.8159534 10.8162278
43 010.362016; 43 3010.3627976 44 1010.3635776 44 3010.364359; 45 010.365141	010.8687648 010.8690235 310.8692820	58 30 59 0 59 30	10.386455 10.387252 10.388050	10.8165020 10.8167786 10.8170546 10.8173316 10.817609

Minutes	$\int_{a}^{b} x^{3} - bx = 2c$	bx-x3=2c	Seconds Minutes	x3-bx=2c	bx-x³=2c
0 0 0 0 1 0 1 30 2 0 0 2 30 2 30 2 30 2	10.3896474 10.3904469 10.3912470 10.3920476	10.8176093 10.8178874 10.8181661 10.8184454 10.8187252 10.8190058	15 30 16 0 16 30 17 0	10.4138861 10.4147034 10.4155213 10.4163399	10.8262231 10.8265201 10.8268178 10.8271161 10.8274151 10.8277147
3 30 4 0 4 30	10.3936505 10.3944527 10.3952556 10.3960591 10.3968633	10.8195687 10.8198512 10.8201341	18 30 19 0	10.4187994 10.4196204 10.4204421	10.8280150 10.8283160 10.8286176 10.8289199 10.8292229
6 30	10.3976678 10.3984730 10.3992788 10.400853 10.4008923	10.8209870 10.8212724 10.8215585	21 30 21 30	10.4229109	10.8295266 10.8298399 10.8391359 10.8304416 10.8307479
9 30 9 30	10.4016999 10.4025081 10.4033169 10.4041262 10.4049362	10.8224207 10.8227093 10.8229986	23 30 24 0	10.4270385	10.8310549 10.8313627 10.8316711 10.8319802 10.8312899
11 30 11 30	10.4057468 10.4065580 10.4073698 10.4081822 10.4089952	10.8238704 10.8241622 10.8244546	26 0 26 30 27 0	10:4311822 10:4320129 10:4328442	10.8326003 10.8329114 10.8332233 10.8335358 10.8338490
13 30 14 0 14 30	10.4098088 10.4106230 10.4114379 10.4122533 10.4130695	10.8253360 10.8256311 10.8259267	28 30 29 0 29 30	10.4345089 10.4353423 10.4361763 10.4370110 10.4378463	10.8344775 10.8347927 10.8351088

980000								
	0	7	T	~	T	77	T	S.
- 7	× .		H	of the last	-	1.3	H	Contract of the Contract of th
4	U	_	-		11		-	No

Seconds Minutes	x3—bx=20	hx-x3=20	Seconds Minutes	x³—bx <u>—</u> 2c	bx—x³=2c
30 30 31 0 31 30 32 0	10.4378463 10.4386823 10.4395190 10.4463563 10.4411943 10.4420331	10.8363799	45 30 46 0 46 30 47 0	10.4640837 10.4649414 10.4657999 10.4666592	10.8452628 10.8456023 10.8459426 10.8462835 10.8466252 10.8469677
33 30 34 0	10.4437126 10.4445534 10.4453048	10.8373405 10.8376622 10.8379846 10.8383078 10.8386316	48 30 49 0 49 30	10.4692412 10.4701034 10.4709663	10.8473110 10.8476550 10.8479998 10.8483455 10.8486915
36 co	10.4479231 10.4487673 10.4496123	10 8389562 10.8392815 10.8396075 10.8399343 10.8402617	51 c 51 30 52 c	10.4735595	10.8490391 10.8493871 10.8497358 10.8500853 10.8504356
39 30	10.4521512	10.8405898 10.8409188 10.8412488 10.8415789 10.8419100	53 30	10.4778968	10.8507867 10.8511386 10.8514913 10.8518448 10.8521991
40 30 41 0 41 30 42 0	10.4555462 10.4563963 10.4572476	10.8422420 10.8425747 10.8429081 10.8432422 10.843577	55 30 56 0 56 30	10.482253 10.483126 10.484001	10.8525543 10.8529103 10.8532671 10.8536246 10.8539830
43 30 44 30	10.4606600	10.8439127 10.8442493 10.8445864 10.8449242 10.8452628	58 30 59 0 59 30	10 436628 10.487506 10.488384	10.8543422 910.8547021 10.8550629 10.8554246

		39 DE	GR	E	E S	•		
Minutes	$\int_{x^3-bx=2}$	bx-x3=2	Minutes	Seconds	<u>-</u> bо	(=2 <i>0</i>	bx-	x³=-2
0 (10.4892636	10.8557871	15	0 1	0.516	0180	10.8	67056
0 30	10 4901438	10.8561504	15 3	010	0.516	9229	10.8	67446
1 20	10.4919245	10.0505145		010	0.517	8287	10.0	67836 68227
2 0	10.4927884	10.8500/94	10 3	0110	0.510	7353	10.8	68619
2 30	10.4936714	10.8576118	17 2	011	520	14444	10.8	69012
1000	O. WATERSTAN		-	-		No. Contractor	MATERIAL PROPERTY.	CONSTRUCTION OF THE
3 0	10.4945553	10.8579793	18	OIC	.521	4607	10.8	69405
3 30	10.4954401	10.8583477	18 3		.522	3709	10.8	69800
4 20	10.4963256	10.8587168	19	0110	523	2819	10.0	70196
4 30	10.4972119	10.8590009	19 3	OIL	524	1939	10.8	70592
5.00 M. A.	DO THE THE PROPERTY OF THE PARTY OF THE PART	7.130	0.00		100	-	SAME TO SERVICE	TO THE
5 30	10.4989870	10.8598294	20 3	OIC	.526	0205	10.8	71388
6 0	10.4998759	10.8002019	21	o'IC	.526	9353	10.8	71788
6 30	10.5007656	10.8605754	21 30		-527	8508	10.0	72188
7 0	10.5016560 10.5025473	10.8609496	22		.520	7072 6876	10.8	72589
7 30	10.5025473	10.0013247	22 30		.529	0040	10.0	4991
8 0	10.5034395	10.8617007	23 (010	-530	6029	10.8	13394
8 30	10 5043324	10.8620776	22 20	10	.531	5221	10.87	3798
	10 5052262		24 (IO	.522	4422	10.07	14203
9 30	10.5061208	10.8628340	24 30	IO	•533.	3633	10.87	4609 5016
0 0	10 5070163	10.8632135	25 (10	534	2853	10.07	5010
0 30	10.5079126	10 8625028	25 20	10	-535	2082	10.87	5424
I 0	10.5088098	10.8639750	26	10	.536	1322	10.87	5833
I 30	10.5097078	10.8643572	26 30	10	-537	2569	10.87	6243
2 0	10.5106066	10.8647402	27 1	110	.527	2827	10.87	0053
2 30	10.5115063	10.8651241	27 30	10	.538	9092	10.87	7065
EXTENSION TO SERVICE			250 SZ - 210	O 1000	All Control	4	Marie Marie Control	7478
	10.5124069		28 20	10	.540	7654	10.87	7892
	10.5142107		20 0	10	-541	6940	10.87	8306
	10.5151139		20 20	10	542	6253	10.87	8722 9138
5 °C	10.5160180	10 8670568	20 0	1.0	542	-56-	10.87	0138

Minutes	peconds	x3-b	×=2€	5x-x3=	=2 <i>c</i>	Minutes	seconds,	x3	bx=	2 c	/x-x	·=2
32	30 30 0	10.54 10.54 10.54 10.54	44890 54222 63565 72918	10.879 10.879 10.879 10.880 10.880 10.881	564 9750 1945	45 46 46 47	30	10.5 10.5 10.5 10.5	7291 7388 7484 7581	99 35 81 381	10.892 10.892 10.893 10.893 10.893	5575 0071 4579
	30	10.55 10.55 10.55 10.55	01023 10425 19826 29237	10.8816 10.8826 10.8825 10.8826 10.8833	837 073 328 593	48 49 49 50	30	10.5 10.5 10.5	7774 7871 7968 8065	851 741 751 851	10.894 10.895 10.895 10.896 10.896	8160 2720 7283
35 36 36 37 37	30 30	10.55 10.55 10.55 10.55	38658 48088 57529 66979	10.8837 10.8842 10.8846 10.8850 10.8855	870 456 453 759	50 51 51 52	30 30 c	10.58 10.58 10.58	3578 3578 4553	391	0.897 0.897 0.898 0.898 0.898	1039 5647 9255
38 38 39 39 40	30	10.550 10.560 10.561	5391 4882 4383	10.8859 10.8863 10.8868 10.8872 10.8876	741 090 149	53 53 54	30 1	10.58 10.58 10.58	7486 8466 9447 0 42 9	710	0.8994 0.8998 0.9003 0.9008	188 853 529
41 41 3 42	01	0.564 0.565 0.566	2947 2489 2042	10.8881 10.8885 10.88890 10.8894	587 S 587 S 198 S	6 4	30 I	0.59 0.59 0.59	2397 3383 4 3 69	5 10 6 10 3 10	0.9017 0.9022 0.9027 0.9031	625 346 080
43 43 3 44 44 3	010101	0.568 0.569 0.570	11 76 0760 1 0353 1	0 89032 0 89076 0 89121 0 89166 0 89210	\$25 965 495	8 8 9 9	01	0.59 0.59 0.59 0.60	7336 8327 9320 93136	7 10	9041 9046 9055 9060	349

			40 DE	GR	EES.	
	Minutes	$\begin{cases} x^3 - bx = 2c \end{cases}$	$bx - x^3 = 2c$	Seconds Minutes	$x^3 - bx = 2$	1x + x3 = 2c
ないいかのかっている	0 30 1 0 1 30 2 0	010,6023042 010,6033013 010,6042993	10.9060542 210.9065370 310.9070209 510.9075061 910.9079925	15 30 16 0 16 30	10.6337786 10.6348141 10.6358509	10.9215960 10.9221178 10.9226411
というのです。	3 30 4 0 4 30	10.6073012 10.6083042 10.6093084	10.9089688 10.9094588 10.9099500 310.9104426 310.9109363	18 0 18 30 19 0	10.6379284 10.6389692 10.6400114 10.6410548 10.6420997	10.9247474 10.9252764 10.9258086
2000	6 30	10.6133370 10.6143473 10.6153587	10.9114313 10.9119274 310.9124249 10.9129235 10.9134234	21 0 21 30 22 0	10.6431458 10.6441932 10.6452421 10.6462923 10.6473439	10.9268754 10.9274198 10.9279477 10.9284859 10.9290255
0 10 0 00 731	9 0	10.6184004	10.9139245 10.9144270 10.9149308 10.9154357 10.9159420	23 · 0 23 30 24 0	10.6483968 10.6494512 10.6505069 10.6515640 10.6526225	10.9301088 10.9306525 10.9311978
1	10 30 11 0 11 30	10.6224733 10.6234947 10.6245174 10.6255413	10.9164495 10.9169583 10.9174684 10.9179797 10.9184924	25 30 26 0 26 30 27 0	10.6536824 10.6547438 10.6558065 10.6568706 10.6579361	10.9328418 10.9333927 10.9339450
1	13 0 13 30 14 0 14 30	10.6275928 10.6286233 10.6296495 10.6306799	10.9190064 19.9195217 10.9200383 10.9205563 10.9210755	28 o 28 30 29 o 29 30	10.6590030 10.6600715 10.6611413 10.6622126 10.6632855	10.9350542 10.9356109 10.9361689 10.9367286

Seconds Minutes	x³—bx—2.		Seconds Minutes	$x^3-bx=2c$	$bx-x^3=2$
30 30 31 0 31 30 32 0	10.6632853 10.6643595 10.6654351 10.6665122 10.6675908 10.6686708	10.9378523 10.9384163 10.9389818 10.9395488	45 30 46 0 46 30 47 0	10.6972886 10.6984166 10.6995344 10.7006599	10.9548342 10.9554438 10.9560556 10.9566678 10.9572823 10.9578986
33 30 34 0 34 30	10.6708353 10.6719199 10.6730058	10.9406874 10.9412589 10.9418319 10.9424064 10.9429825	48 30 49 0 49 30	10.7040461	10.9585169 10.9591361 10.9597574 10.9603809 10.9610053
36 30 36 30	10.6762729 10.6773649 10.6784584	10.9435602 10.9441393 10.9447201 10.9453024 10.9458862	51 0 51 30 52 0	10.7097235 10.7108640 10.7120063	10.9616317 10.9622599 10.9628898 10.9635215 10.9641550
38 30 39 0	10.6817483 10.6828481 10.6839494	10 9464716 10.9470585 10.9476469 10.9482370 10.9488387	53 30 54 0 54 30	10.7154437 10.7165930 10.7177441	10.9647901 10.9654271 10.9660658 10.9667063
41 30 41 30	10 6872626 10.6883702 10.6894794	10 9494221 10.9500170 10.9506134 10.9512114 10.9518112	56 0 56 30 57 0	10.7212077 10.7223659 10.7235258	10 9679926 10 9686385 10 9692863 10 9699358 10 9705871
43 30 44 0 44 30	10.6928165 10.6939321 10.6950493	10.9524125 10.9530155 10.9536201 10.9542263 10.9548342	58 30 59 0 59 30	10.7270165	10.9712403 10.9718953 10.9725521 10.9732108

995

1	4	DEG	R E	ES.	
Seconds Minutes	x³—bx=21	x-x=1	Seconds Minutes	203—ba=2.	×-x=2
0 30 I 0 I 30 2 0	10.7305237 10.7316964 10.7328709 10.7340473 10.7352256 10.7364058	10.9745338 10.9751981 10.9758643 10.9765324	15 30 16 0 16 30	10.7677789 10.7 6 90132 10.7702495	10.994595 10.995317 10.996042 10.996768 10.997497 10.998228
3 30	10.7375879 10.7387719 10.7399578 10.7411456 10.7423353	10.9785481 10.9792238 10.9799016	19 30	10.773971 10.775216 10.7764636 10.7777120 10.7789644	10.999697 11.000434 11.001174
6 30	10.7435270 10.7447207 10.7459162 10.7471137 10.7483131	10.9826318	21 30	10.780218 10.781474 10.782732 10.7839928 10.785255	111 003407 311 004156 311.004907
9 30	10.7495146 10.7507179 10.7519233 10.7531307	10.9853937	23 30 24 0	10.786520 10.7877876 10.7890576 10.7903286 10.7916030	511.007174 511.007934 511.008696
11 (11 30	10.7555516 10.7567650 10.757980 10.7591980 10.7604176	10.9888914 10.9895971 10.990304	26 30 26 30	10.792879, 10.794158 10.795439 10.796722 10.798008	11.010998 211.011769 711.012543
13 30 14 0	10.7616393 10.762863 10.7640886 10.7653167 10.7665467	10.9924409 10.9931569 10.9938747	28 30 29 0 29 30	10.7992966 10.809587 10.801880 10.803175 10.804473	2 11.014880 1 11 015664 4 11.016450

41	D	E	G	R	E	E	S

Minutes .	x³—bx=2c	bx—x³=2	Seconds Minutes	v=-bx=20	b x —x³=2ℓ
30 30 31 0 31 30	10.8044730 10.8057733 10.8070759 10.8083809 10.8096884 10.8109984	11.0180305	45 30 46 0 46 30 47 0	10.8459690 10.8473508 10.8487354 10.8501229	11.0420909 11.0429612 11.0438344 11.0447104 11.0455893 11.0464712
33 30 34 0 34 30	10.8136259 10.8149434 10.8162634		49 0 49 30	10.8543025 10.8557017 10.8571037	11.0473559 11 0482435 11.0491341 11.0500277 11.0509242
36 30	10.8202389	11.0260782 11.0268969 11.0277183 11.0285423 11.0293689	51 0	10.8599165 10.8613275 10.8627414 10.8641584 10.8655784	11.0527263 11.0536318 11.054 5 404
38 30 39 30 39 30	10.8255753 10.8269160 10.8282593 10.8296053	11.0301981 11.0310300 11.0318645 11.0327017 11.0335416	53 0 53 30 54 0 54 30	10.8684276 10.8698568 10.8712891	11.0563767 11.0572846 11.0582056 11.0591296 11.0600567
41 30 41 30	10.8336594 10.8350161 10.8363756	11.0343841 11.0352294 11.0360773 11.0369280 11.0377816	56 0 56 30 57 0	10.8756049 10.8770499 10.8784986	11.0609870 11.0619205 11.0628573 11.0637972 11.0647403
43 39 44 0 44 30	10.8404703 10.8418408 10.8432140	11.0386379 11.0394969 11 0403588 11 ⁰ 0412234 11.0420909	58 30 59 0 59 30	10.8828617 10.8843227 10.8857870	11.0656866 11.0666363 11.0675891 11.0685454

Seconds	x3-bx=2c	bx-x³=21	Seconds Minutes	x ;—b x=2 c	bx—x³==1c
0 0 0 30 1 0 1 30 2 0	10.8916776	11,0704678 11 0714339 11.0724036 11.0733765	15 30 16 0 16 30 17 0	10.9344953 10.9360802 10.9376681 10.9392601	£1,0999301 11,1010033 11,1020786 11,1031589 11,1042433 11,1053318
3 30 4 0 4 30	10.8961308 10.8976220 10.8991167 10.9006149 10.9021166	11.076316c 11.0773027 11.0782929	18 30 19 0 19 30 20 0	10.9440606 10.9456689 10.9472814 10.9488980	11.1064243 11.1075210 11.1086217 11.1097268 11.1108360
6 3	10.9036219 10.9051306 10.9066429 10.9081587 10.9096782	11.0812846	21 30	10.9521442 10.9537735 10.9554072	11.1119494 11.1130670 11.1141889 11.1153152 11.1164458
8 3	10.9112013 10.9127280 10.9142583 10.9157924	11.0873651	23 30 24 0 24 30 25 0	10.9603344 10.9619856 10.9636412 10.9653012	11.1175807 11.1187200 11.1198636 11.1210118 11.1221644
10 3 11 11 3	010.9188716 010.9204168 010.9219658 010.9235186	11.0904550 11.0914924 11.0925336	25 30 26 30 26 30 27 30	10.9686346 10.9703082 10.971986 10.973669	11 1233216 11.1244834 211.1256496 311.1268203
TA.	0 10.9266357 0 10.9281999 0 10.929768 0 10.931340 0 10.932916	11.097797	28 30 329 0 729 30	10.9770480	11.1291758 511.1303606 311.1315501 911.1327443 211.1339432

	42 DEGREES.																		
Minutes	Seconds	% 3	-b:	v=	20	×	,	6.3=	2.0	Minutes	Seconds	∞³_		×=	=20	bx-	_x	31111	20
30 30 31 31 32 32	30	10	98 98 98 98	386 558 739	42 01 08 265	11 11 11	13 13 13	51. 63 75 87	432 470 557 692 877	45 46 46 47	30	11 11 11	.03 .03 .04	75 94 13	268 984 752 593 489	11. 11. 11.	17:17:17:17	366 504 641 779	96 69
63 33 34 34 35	30	10	99 99	42; 59;	331 786 293	II II	14	24 37 49	727 1110 545	48 48 49 49 50	30		05	89 08 27 47	464 546 696 895	11	18	198 339 480 622	848 922 962 964
36	30	11 11 11	00	30 47 65	117 829 593	11 11	.14	87 99	799 49:	50 51 51 52 52	630	II	.00	85 005 24	497 895 358 887 482	11	.19	908	25
39 39	30	II	10.	37 55	205 183 215	11	I.	563 76	790	53 53 54 54 55	30		.0	083 703 723	14: 876 66: 3528	11	.19	78:	19 22 22
4I 4I 42	30	11	.02	09 27 46:	642 895 205	ri ri	.16	015 029 042	97	55 56 56 57 57	30		0	783 303 323	3533 3674 3886 170	11	.20	37 52 68	32. 90 04
44	30	11	03	01. 200 380	476 514 512	11	.16	82 95	934	58 58 59 59	30	11	00.00	384 905 926	95: 45: 03: 68:	11	21 21 21	13 29 44	91 35 86

			43. D.E.	GIRI I	E, I	ES.	
Minutes	beconds	x³	bx+x/3=>1	Seconds Minutes	×3-	bx=2	1 4
0 0 I	30	11.0946681 11.0967405 11.0988205 11.1009082	11.2170105	15 30 16 0	11	1627531	11 266606 11 268431 11 270265
1 2 2	, O	11.1009082 11.1030037 11.1051969	11 2223541	17 C	11	1674455 1698068 1721783	11.272110 11.273966 11.275831
4	30 30	11,1072180 11,1093368 11,1114637 11,1135986 11,1157416	11.2271676 11.2287881 11.2304166	19 30	11	1769523 1793551 1817684	11.277706 11.279592 11.281489 11.283396 11.285314
56	30 0	11.1178929 11.1200524 11.1222202	11.2336979 11.2353508 11.2370122	20 30 21 10	11	1866274 1890733 1915302	11.287243 11.289182 11.29188
7 8 8	30	11.1243964 11.1265810 11.1287742 11.1309761	11.2420470	22 30	11	1989682	11.293095 11.295068 11.297053 11.299049
9 9 10	30	11.1331866 11.1354060 11.1376342	## 2454466 ## 2471596 ## 2488814	24 (6 24 30 25 (6	11.	2039844 2065100 2090476	11.301057 11.303076 11.305108
11 11 12	30 0	11.1398712 11.1421173 11.1443726 11.1466371	11.2523521 11.2541010 11.2558591	26 30 26 30	II.	2141586 2167324 2193187	11.307151 11.309207 11.311274 11.313355
13	0	11.1489169 11.1511940 11.1534865 11.1557886	11.2594032	28 c	II	2245291 2271533	11.315447 11.317553 11.319671 11.321802
14	30	11.1581003	11.2647900	29 30	11	2324407	11.323946

43	D	R.	G	R	E	F.	2
4.	~	-	•	-	-	-	N.

yeconds Minutes	r3—/	hx=2:	bx—.	x³=20	Minutes	peconds	.3	bx=20	$-x^3 =$
30 30 31 0 31 30 32 0	11.23 11.24 11.24 11.24	351042 377811 404715 431756 458935 486255	11.3 11.3 11.3 11.3	182751 304595 326576 348695	45 46 46 47	30	11.3 11.3 11.3 11.3	251570 283381 315390 347600	11.397818 11.400474 11.403146 11.405844 11.408556
33 30 34 0 34 30	11.25 11.25 11.25	13715 541320 569068 596963 525006	11.34	15900 38588 6142	48	30 C	11.34 11.34 11.34	12633 145462 178502	11.414051 11.416828 11.419626 11.422446 11.425288
36 o 36 30 37 o	11.26 11.27 11.27	53199 81545 10044 38699 67510	11.35	30826 54268 77863	51 51 52	30	11.36	12846	11.428152 11.431038 11.433947 11.436879 11.439835
38 30 39 0 39 30	11.28 11.28 11.28	96480 25613 54908 84368 13996	11.36 11.36 11.36	49601 73836 98238	53 54 54	30 0 30	11.37 11.37 11.38 11.38	50837 85930 21268 56855	11.442814 11.445818 11.448846 11.451899 11.454977
1 0 1 30 2 C	11.29 11.30 11.30	43792 73761 03903 34222 64719	11.37 11.37 11.38	72457 97539 22798	56 57	30 30 0	11.39 11.39 11.40	28792 65150 01771 38662	11.458081, 11.461211, 11.4643670 11.467551, 11.470762
13 0 13 30 14 C	11.30 11.31 11.31 11.31	95395 26255 57300 88532	11 38 11.38 11.39 11.39	73 ⁸ 55 99 ⁶ 57 25 ⁶ 44 51 ⁸ 18	58 58 59 59	30	11.41 11.41 11.41 11.42	13268 50993 89005 27307	11.4740008 11.4772679 11.4805629 11.4838875 11.4872418

Seconds	׳—b;	r=2/2x	—x3=	Minutes	Seconds	;3—bx	=26	bx—.	v³—3.c
0 30 1 0 1 30 2 0	11.434	5906 11 94806 11 14013 11 13531 11 23366 11 53524 11	4906: 4940: 4974: 5009:	262 15 413 16 875 16 654 17	30	11.559 11.564 11.569 11.574 11.579 11.585	2973 4595 6779 9536	11.60 11.61 11.61	39331 86459 341 6 0
3 3 3 4 3 9	11.45 11.45 11.45	0401011 4483011 8599011 2749511	.5080 .5115 .5152	186 18 950 18 054 19 503 19	30	11.590	6824 1384 6575 2410	11.6 11.6 11.6	331340 880844 139979 181760
6 3	011.47 011.47 011.48	11570 11 54152 1 97106 1 40440 1 84159 1	1.5299 1.5337 1.5376	992 21 899 21 168 22	30	11.624 11.630 11.636	3953 2539 1857	11.6	638141 691671 745933
8 3 9 9 3	011.49 011.50 011.50	28272 I 72786 I 17708 I 63049 I 08816 I	1.5493 1.5533 1.5573	348 23 216 24 501 24	30	11.648 11.654 11.666 11.667	4400 6840	11.6	913314 970700 02894
11 11 3 12	011.52 011.52	55016 I 01659 I 48754 I 06309 I	1.5696 1.5738 1.5781	94326 98426 4852	30	11.670 11.680 11.69 11.69	32140 32140	11.7	20890 27973 3 3 353
13 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	6 11.51 6 11.54 6 11.54	192846 1 41845 1 191346 1 141360 1	1.5867 1.5911 1.5950 1,600	910 28 855 28 302 20 1260 2	3 30	11.71 11.72 11.72 11.73	9666 8169 5485	1117	52803 59501 66311

Seconds Minutes	e3—bx=2c	b x — x ³=2	Seconds Minutes	κ³—b x=2 ι	bx-x3=20
30 30 31 0 31 30 32 0	11.7429179 11.7504713 11.7581495 21.7659567 11.7738976 11.7819770	11.7732391 11.7802871 11.7874599 11.7947617 11.8021972	45 30 46 0 46 30 47 0	12.0515616 12.0665383 12.0820316 12.0980793 12.1147231 12.1320096	12.0811929 12.0961808 12.1117231 12.1278615
33 30 34 0 34 30	11.7902000 11.7985719 11.8070984 11.8157855 11.8246397	11.8253553 11.8333764 11.8415581	48 30 49 0 49 30	12.1499916 12.1687283 12.1882867 12.287433 12.2301858	12.1803509 12.1994039 12.2193551
36 o 36 30 37 o	11.8336675 11.8428762 11.8522735 11.8618673 11.8716665	11.8671326 11.8760245 11.8851129	51 0 51 30 52 0	12.2527153 12.2764494 12.3015261 12.3281082 12.3563900	12.2855454 12.3101167 12.3361934
38 30 39 0 39 30	11.8816801 11.8919181 11.9023910 11.9131100 11.9240875	11.9136475 11.9236150 11.9338288	53 30 54 0 54 30	12.3866062 12.4190439 12.4540589 12.4921004 12.5337461	12.4256131 12.4601229 12.4976590
40 30 41 0 41 30	11.9353365 11.9468712 11.9587067 11.9708595	11 9550447 11.9660740 11.9774041 11.9890515	55 30 56 0 56 30	12.5797564 12.6311617 12.6894065 12.7566062 12.8360403	12 584 3044 12.635 2045 12.69294 39 12.7596382
43 0 43 30 44 0	11 9961902 12.0094086 12.0230260 12.0370577 12.0515616	12.0133714 12.0260846 12.0391968 12.0527431	58 0 58 30 59 0 59 30	12.9332031 13.0583945 13.2347384 13.5360212 Infinite.	12.9352243 13.0599105 13.2357492 13.3365266

MARKET IN THE RESERVE OF THE PARTY OF THE a state of the same of the first 115742927914 771/74 ode october i concert 3011,15040 1157,1108 12 166 C 12 CO 102 , 612.7820 11 12.0061826 Defectation. 11,7611105 1 7674 10 0 0 12 12 6 20 316 12 0 6 18 20 31 1 17 17 31 11700000 10 017488 81 012.1409(11912.152119) Tryongraph Briggs had no received a troops of ocorpoter rasasstera el occiono con su 17.8157555 (1.041528) (d. 3012.50844.812/81645.11 2040-11 60:04428.11 orragois a flia rigação orzasartenimistantes \$563 rate 35 8 110 \$012.3012.2014.2.3102.10 go it Bearing in B MANGENT STATE OF THE SECTION AND ASSESSED FOR THE SECTION ASSESSED FOR THE SECTION AND ASSESSED FOR THE SECTION AND ASSESSED FOR THE SECTION AS orages observations 3011.871000 htt 891400 413 3012 326 10 30168.1108 one service of the se to the goargrotungs for class our assessments 2011.013110011.033928 74 30 12-402 (ch. 140) our offer and so in the source and 1005-2100 \$2 12 68 27 502 11 62 250 64 51 CB otzottion' 27 1,0000.110176c.10:110 301265 CIST Application of the state of the graediasbora distribution